



ID: 1.1.4



2.

10

(d) f(- x)

(h) f(x + h)

Find the following for the function $f(x) = 4x^2 + 4x - 4$. (b) f(3) (a) f(0) (c) f(-3) (e) - f(x) (f) f(x + 3) (g) f(4x) (a) f(0) = (Simplify your answer.) (b) f(3) = (Simplify your answer.) (c) f(-3) = (Simplify your answer.) (d) f(-x) = (Simplify your answer.) (Simplify your answer.) (e) - f(x) = (f) f(x + 3) = (Simplify your answer.) (g) f(4x) = (Simplify your answer.) (h) f(x + h) =(Simplify your answer.) Answers -4

44
20

$$4x^{2} - 4x - 4$$

 $- 4x^{2} - 4x + 4$
 $4x^{2} + 28x + 44$
 $64x^{2} + 16x - 4$
 $4x^{2} + 8hx + 4h^{2} + 4x + 4h - 4$

4

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2)0

RA= 4x2+4x-4 F19 - 4101 - 4101 - 4 FOI = 4(0)(0) + 4(0) - 4 4(0)=4(0)-4(0)-4 HO1= 0 + 0 - 4 for 0-4 f(0) = -4 2 f(x)=4x2+4x-4 6 $f(3) = 4(3)^2 + 4(3) - 4$ F(3) 2 4(3)(3) + 4(3) - 4 f(3) = 4(9) + 4(3) - 4f(3) = 36 +12 - 4 f(3) = 48 - 4 F(3) = 44

(2) fix1=4x2+4x-4 f(-3) = 4(-3) + 4(-31 - 4 H-3)=4(-3)(-3) +4(-3) -4 A(-3)=4(9) +4(-5)-4 A(-3) = 36-12-4 f(-3) = 24-4 F(-3) = 20 far 4x2+4x-4 2) f(-x)=4(-x)2+4(-x)-4 f(-x) = 4(-x)(-x) - 4 4(-x) - 4 f(-x)=4(x2)+4(-x)-4 f(-x) = 4x² - 4x - 4



HAT= 4x2 +4x-4 (2) f f(x+3) = 4(x+3) + 4(x+3) - 4 f(x+13)=4(x+3)(x+3) +4(x+3)-4 H(X+3) = 4(X - + 3X + 3) + 4(X+3) - 4 $f(x+3) = 4(x^2 + 6x + 5) + 4(x+3) - 4$ f(X+3) = 4x2 + 24x+36+4x+12-4 f(X+3) = 4x2 + 28x + 44

fx1= 4x2+4x-4 2) 9 $f(4x) = 4(4x)^2 + 4(4x) - 4$ f(42) = 4(42)(42) +4(42) -4 f(4x) = 4(16x 2) + 4(4x) - 4 (4x) = 64 x + 16x - 4 (2) h far= 4x - 44x - 4 f(x+th) = 4(x+th) + 4(K+th) - 4 f(x+h) = 4(x+h)(x+h) + 4(x+h) - 4H(X+14) = 4(X+Xh+Xh+h) + 4(X+h)-4 H(X+th) = 4 (x+1xh+1xh+h2) + 4(x+th) - 4 H(X+4) = 4(x2+2xh+h2)+4(X+4)-4 F(X+4) = 4x2+8x4+442+4x+44-4

5. Find the domain of the function.

 $f(x) = \sqrt{2x - 16}$

The domain is

Answer: [8,∞)

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FR1 = V2X-16

1.t 21-16 20

(Type your answer in interval notation.)

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formlo domani M-VAXIB

Let AX+B=0

4. For the given functions f and g, complete parts (a)-(h). For parts (a)-(d), also find the domain.

(++9)(X) = f(x) = 3x + 8; g(x) = 5x - 3FRI + 56) (a) Find (f + g)(x). 3×+8)+(5×-3)2 (f + g)(x) =(Simplify your answer.) What is the domain of f + g? Select the correct choice below and, if necessary, fill in the answer pox to complete you choice. XXTS \bigcirc **A.** The domain is $\{x \mid$ (Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) \bigcirc **B.** The domain is {x| x is any real number}. 3×+8)-(5×-3)= (b) Find (f - g)(x). 3x + 8 - 5x + 3 =(f - g)(x) =(Simplify your answer.) What is the domain of f - g? Select the correct choice below and, if necessary, fill in the answer box to complete choice. \bigcirc **A.** The domain is $\{x\}$ (Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) \bigcirc **B.** The domain is {x | x is any real number}. (c) Find $(f \cdot g)(x)$. 3x+8)(5x-3)= $(f \cdot g)(x) =$ (Simplify your answer.) What is the domain of f • g? Select the correct choice below and, if necessary, fill in the answer box to complete your choice. 31 x - 24 = \bigcirc **A.** The domain is $\{x|$ (Use integers or fractions for any numbers in the expression. Use a comma to separate 5×-3=0 answers as needed.) \bigcirc **B.** The domain is {x | x is any real number}. (d) Find $\left(\frac{f}{g}\right)(x)$. $\left(\frac{f}{g}\right)(x) =$ (Simplify your answer.) What is the domain of -? Select the correct choice below and, if necessary, fill in the answer box to complete your choice man \bigcirc **A**. The domain is $\{x \mid$ (Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) \bigcirc **B.** The domain is {x | x is any real number}. = 8(3)-15 24-55 (e) Find (f + g)(3).



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5. For the given functions f and g, complete parts (a)-(h). For parts (a)-(d), also find the domain.

f(x) = x - 4; $g(x) = 6x^2$

(a) Find (f + g)(x).

(f + g)(x) =(Simplify your answer.)

(X-4)+ (GX2) 2 X-4+6×22 What is the domain of f + g? Select the correct choice below and, if necessary, fill in the answer box to complete your choice. GVC

+9(4)=

Fal - 5(+)-

20 5/21

4)(GX')~

(2) = 6(2)(2) + (2)-4

2) = 6(4) + 2 - 4 2) = 24 + 2 - 4

 $(x-4) - (6x^2) = x-4 - 6x^2 = 0$

 \bigcirc **A**. The domain is $\{x \mid$ (Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) 9) (A 2

 \bigcirc **B.** The domain is {x| x is any real number}.

(b) Find (f - g)(x).

(Simplify your answer.) (f - g)(x) =

What is the domain of f - g? Select the correct choice below and, if necessary, fill in the answer box to complete your choice. +X-42 -6x

 \bigcirc **A.** The domain is $\{x|$ (Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)

 \bigcirc **B.** The domain is {x | x is any real number}.

(c) Find $(f \cdot g)(x)$.

 $(f \cdot g)(x) =$ (Simplify your answer.)

What is the domain of f . g? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

 \bigcirc **A.** The domain is $\{x \mid x \in A\}$ (Use integers or fractions for any numbers in the expression. Use a comma to separate $M = 6 \chi^2$ answers as needed.) 6×1 0

 \bigcirc B. The domain is {x x is any real number}.

(d) Find $\left(\frac{f}{g}\right)(x)$.

 $\left(\frac{f}{a}\right)(x) =$ (Simplify your answer.)

What is the domain of -? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- +91X1= 6x +x-4 \bigcirc **A.** The domain is $\{x \mid x \in A\}$ (Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) $(f+g)(2) \ge G(2) \le f(2) - \gamma$
- \bigcirc **B.** The domain is {x | x is any real number}.

(e) Find (f + g)(2),

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7. Given $f(x) = x^2 - 4x + 3$, find the value(s) for x such that f(x) = 15.

The solution set is {_____}.

Answer: - 2,6

ID: 1.1.91

Act
$$y^{2} - 4x + 3 = 15$$

 $x^{2} - 4x + 3 - 15 = 15 - 15$
 $x^{2} - 4x - 12 = 0$
 $(x + 2)(x - 6) = 0$
 $x + 2 = 3$ 0*A* $x - 6 = 3$
 $x + 2 = 3$ 0*A* $x - 6 = 5$
 $x + 2 = 3$ 0*A* $x - 6 + 6 = 0 + 6$
 $(x = -2) OA (x = 6)$

5

- 8. Determine whether the graph on the right is that of a function by using the vertical-line test. If it is, use the graph to find the following.
 - (a) the domain and range
 - (b) the intercepts, if any
 - (c) any symmetry with respect to the x-axis, y-axis, or the origin

Does the graph represent a function? Choose the correct answer below.

- \bigcirc A. No, the graph is not a function because a vertical line x = -3 intersects the graph at only one point.
- B. Nes, the graph is a function because every vertical line intersects the graph in at most one point.
- \bigcirc C. No, the graph is not a function because a vertical line x = -3 intersects the graph at two points.
- O D. Yes, the graph is a function because every vertical line intersects the graph in more than one point.

(a) What are the domain and range of the function? Select the correct choice below and, if necessary, fill in the answer box(es) to complete your choice. (/ ef-1, / 1) + +

- 01 . The range is The domain is (Type your answers in interval notation. Use integers or fractions for any numbers in the expressions.)
- B. The graph is not that of a function.

(b) What is/are the intercept(s)? Select the correct choice below and, if necessary, fill in the answer box to complete your choice. (0) 1-interally

A. The intercept(s) is/are

(Type an ordered pair. Use a comma to separate answers as needed.)

- B. There are no intercepts.
- C. The graph is not that of a function.

(c) Determine if the graph is symmetric with respect to the x-axis, y-axis, or the origin. Select all that apply.

- **A.** The graph is symmetric with respect to the y-axis.
- **B.** The graph is symmetric with respect to the origin.
- **C.** The graph is symmetric with respect to the x-axis.
- D. The graph has no symmetry.
- E. The graph is not that of a function.

Answers B. Yes, the graph is a function because every vertical line intersects the graph in at most one point.

A. The domain is (-4,0). The range is $(-\infty,3)$

(Type your answers in interval notation. Use integers or fractions for any numbers in the expressions.)

A. The intercept(s) is/are (-1,0) .(Type an ordered pair. Use a comma to separate answers as needed.)

D. The graph has no symmetry.

ID: 1.2.19

- \mathcal{V} 9. Using the given graph of the function f, find the following.
 - (a) the intercepts, if any
 - (b) its domain and range
 - (c) the intervals on which it is increasing, decreasing, or constant
 - (d) whether it is even, odd, or neither



y-interast (a) What are the intercepts?

(1,0)(Simplify your answer. Type an ordered pair. Use a comma to separate answers as needed.)

Ellef4 31 (b) The domain is (Type your answer in interval notation.) beton, Jup] The range is

(Type your answer in interval notation.)

(c) On which interval(s) is the graph increasing? Select the correct choice below and fill in any answer boxes within your choice.



O B. The graph is not increasing on any interval.

On which interval(s) is the graph decreasing? Select the correct choice below and fill in any answer boxes within your choice.

[-3,-1] [0, A. The graph is decreasing on

(Type your answer in interval notation. Use a comma to separate answers as needed.)

B. The graph is not decreasing on any interval.

On which interval(s) is the graph constant? Select the correct choice below and fill in any answer boxes within your choice.

- A. The graph is constant on (Type your answer in interval notation. Use a comma to separate answers as needed.) **B.** The graph is not constant on any interval.
- (1)

 neither odd nor even.

🔘 odd. even

(d) The function is (1)

Answers (-1,0),(1,0),(0,1)

[-3,3]

[0,2]

A. The graph is increasing on [-1,0],[1,3].

(Type your answer in interval notation. Use a comma to separate answers as needed.)

A. The graph is decreasing on [-3, -1], [0, 1].

(Type your answer in interval notation. Use a comma to separate answers as needed.)

B. The graph is not constant on any interval.

(1) even.

10. The function f is defined as follows.

$$f(x) = \begin{cases} -3x+4 & \text{if } x < 1\\ 3x-2 & \text{if } x \ge 1 \end{cases}$$

(a) Find the domain of the function.

- (b) Locate any intercepts.
- (c) Graph the function.
- (d) Based on the graph, find the range.

(a) The domain of the function f is $(-\infty) \in (1 + 4, r + 5 + 4)$ (Type your answer in interval notation.)

- (b) Locate any intercepts. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
- A. The intercept(s) is/are (0,4). Y-intercept

(Type an ordered pair. Use a comma to separate answers as needed.)

- O B. There are no intercepts.
- (c) Choose the correct graph below.



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11. The function f is defined as follows.

$$f(x) = \begin{cases} 4+x & \text{if } x < 0\\ x^2 & \text{if } x \ge 0 \end{cases}$$

- (a) Find the domain of the function.
- (b) Locate any intercepts.
- (c) Graph the function.
- (d) Based on the graph, find the range.

-re, re) & (left, rish+) (a) The domain of the function f is (Type your answer in interval notation.)

(b) Locate any intercepts. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

O D.

Sraphy Calculato

• A. The intercept(s) is/are
$$(-4, 0)$$
. (0,0) X-interrupt (Buth

(Type an ordered pair. Use a comma to separate answers as needed.)

- **B.** There are no intercepts.
- (c) Choose the correct graph of f(x) below.

0

ОВ.

Answers $(-\infty,\infty)$

A. The intercept(s) is/are (-4,0),(0,0)

(Type an ordered pair. Use a comma to separate answers as needed.)

$$\frac{1}{2} \frac{1}{2} \frac{1}$$





Answers

D. D. D. D. C. ÷ł D. C.

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14. Factor the given polynomial completely? If the polynomial cannot be factored, say that it is prime. XT $x^{2} + 18x + 77$ Select the correct choice below and fill in any answer boxes within your choice. Leve \bigcirc A. $x^2 + 18x + 77 =$ + 11×+7×+77= ○ **B.** The polynomial is prime. +18×+77= Answer: A. $x^2 + 18x + 77 = (x + 11)(x + 7)$ Goud ID: 2.3.1 1-4=0 15. Solve the equation. X-4+4=014 OR 4X+7-8=0-9 (x-4)(4x+9) = 0}. (Use a comma to separate answers as needed.) The solution set is { 9 Answer: 4, -ID: 2.3.3 16. Find the zeros of the quadratic function by factoring. What are the x-intercepts of the graph of the function? $F(x) = x^{2} + x - 2$ Select the correct choice below and fill in the answer box to complete your choice. (Use a comma to separate answers as needed. Type an integer or a simplified fraction.) ○ A. The zeros and the x-intercepts are the same. They are The zeros and the x-intercepts are different. The zeros are , the x-intercepts ÔВ. are 1055164 (1-0 Answer: A. The zeros and the x-intercepts are the same. They are - 2,1 + x-2 =0 ID: 2.3.17 -1) (X+2) = 0 0 OR X+2=0 LL OR X+2-220-L =0-71 X-1+1 $(\chi =$

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2x -3x-7 20 17. Find the zeros of the quadratic function by factoring. What are the x-intercepts of the graph of the function? $q(x) = 2x^2 - 3x - 2$ Select the correct choice below and fill in the answer box to complete your choice. (Use a comma to separate answers as needed. Type an integer or a simplified fraction.) **A. B.** The zeros and the x-intercepts are different. The zeros are the x-intercepts are different. The zeros are the x-intercepts 2x = -Answer: B. The zeros and the x-intercepts are the same. They are $-\frac{1}{2}$, 2 $(\chi = 2$ ID: 2.3.19 Find the zeros of the following quadratic function by factoring. What are the x-intercepts of the graph of the function? V18. X(X+9)+14=0 q(x) = x(x+9) + 14x2 + 9x+14=0 Select the correct choice below and fill in the answer box to complete your choice. (Simplify your answer. Use a comma to separate answers as needed.) The zeros and the x-intercepts are different. The zeros are are X + 2 = 0 R20 , the x-intercepts ○ A. \bigcirc B. The zeros and the x-intercepts are the same. They are $\bigcirc \bigwedge$ X-17-2=0-2 Answer: B. The zeros and the x-intercepts are the same. They are ID: 2.3.23 Find the zeros of the quadratic function using the square root method. What are the x-intercepts of the graph of the 19. function? (X-5) -16 = (x-5)2 = 16 $g(x) = (x-5)^2 - 16$ Select the correct choice below and fill in the answer box to complete your choice. (Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) ± (/16 \bigcirc A. The zeros and the x-intercepts are the same. They are The zeros and the x-intercepts are different. The zeros are , the x-intercepts 🔾 В. X-5=4 - X-5 = - 4 ON are K-5+5=-4+5 ON X-5+5=4+5 Answer: A. The zeros and the x-intercepts are the same. They are 9.1 ID: 2.3.29

FIA=1X -+ 8x-32 https://xlitemprod.pearsoncmg.com/api/v1/print/math finalm1314COC050sulllljjRZZ04-Alfredo Alvarez a=1, b=8, c=-32 De Qued formation 20. Find the zeros of the following quadratic function by completing the square. What are the x-intercepts of the graph of the X=-6=1/62-42C= -(8) IV(8) 24(1X-32) function? $f(x) = x^2 + 8x - 32$ Select the correct choice below and fill in the answer box to complete your choice. (Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) ○ A. The zeros and the x-intercepts are the same. They are , the x-intercepts The zeros and the x-intercepts are different. The zeros are 🔿 В. are $X = -8 \pm 31$ Answer: A. The zeros and the x-intercepts are the same. They are $-4+4\sqrt{3}$, $-4-4\sqrt{3}$. $\chi = -\frac{3}{2} \pm \frac{3\sqrt{3}}{2}$ X= -4+4V3 ID: 2.3.33 Find the zeros, if any, of the quadratic function using the quadratic formula. What are the x-intercepts, if any, of the graph 21. fix1=8x2+12x+1 5 Vewrite of the function? a=8, b=12, C= $f(x) = 8x^2 + 1 + 12x$ Select the correct choice below and, if necessary, fill in the answer box to complete your choice. (Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.) The zeros and the x-intercepts are different. The zeros are , the x-intercepts ○ A. are ○ B. The zeros and the x-intercepts are the same. They are C. There is no real zero solution and no x-intercept. $\chi = -(12) \pm ((12)^{2} - 4(8)(1))$ 2(8) Answer: B. The zeros and the x-intercepts are the same. They are -12 ± 1/144 - 32 ID: 2.3.47

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22. Find the real zeros, if any, of the following quadratic function using the quadratic formula. What are the x-intercepts, if any, of the graph of the function?

G(x) = 2x(x+2) - 4

Select the correct choice below and, if necessary, fill in the answer box to complete your choice. (Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)

○ A. The zeros and the x-intercepts are the same. They are

The zeros and the x-intercepts are different. The zeros are _____, the x-intercepts

ОВ. are

○ C. There is no real zero solution and no x-intercept.

 $G-f \ll f = 2 \times (X+2) - 4$ Answer: A. The zeros and the x-intercepts are the same. They are $-1 + \sqrt{3}, -1 - \sqrt{3}$. $G|A = 2x^{2} + 4x - 4$ a = 2, b = 4, c = -4

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Yac

$$\chi_{2-}(4) \pm \sqrt{(4)^{2} - 4(2)(-4)}$$

2(2)

23.	Graph the function $f(x) = -x^2 + 2x$ by starting with the graph	20 † ^y
	of $y = x^2$ and using transformations (shifting,	20-
	stretching/compressing, and/or reflecting).	10
	Select all the transformations needed to graph the given function using $y = x^2$.	12-
		4
	 A. Stretch the graph vertically by a factor of 1. 	-20 -16 -12 -8 -4 4 8 12 16 2
	B. Shift the graph to the left 1 unit.	-4-
	C. Reflect the graph about the y-axis.	-8-
	D. Shift the graph down 1 unit.	-12
1	E. Reflect the graph about the x-axis.	-123
	F. Compress the graph vertically by a factor of 1.	-16 -20
4	G . Shift the graph up 1 unit.	
¢	H. Shift the graph to the right 1 unit.	

Answers E. Reflect the graph about the x-axis., G. Shift the graph up 1 unit., H. Shift the graph to the right 1 unit.

20 $2 \times$ 16 12-8 (41 4-(2,0) 0.0) 0 graphing cloulds 12 16ID: 2.4.29-Setup & Solve 1150

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For the quadratic function $f(x) = x^2 + 6x - 7$, answer parts (a) through (c).

(a) Graph the quadratic function by determining whether its graph opens up or down and by finding its vertex, axis of symmetry, y-intercept, and x-intercepts, if any.

Does the graph of f open up or down?

🔿 up

What are the coordinates of the vertex?

The vertex of the parabola is ______. (Type an ordered pair. Use integers or fractions for any numbers in the expression.)

What is the equation of the axis of symmetry?

The axis of symmetry is ______(Type an equation.)

What is/are the x-intercept(s)? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

○ A. The x-intercept(s) is/are

(Type an integer or a decimal. Use a comma to separate answers as needed.)

O B. There are no x-intercepts.

What is the y-intercept? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

 A. The y-intercept is (Type an integer or a decimal.)

B. There is no y-intercept.

Use the graphing tool to graph the function.

(b) Determine the domain and the range of the function.

The domain of f is _____. (Type your answer in interval notation.)

The range of f is

(Type your answer in interval notation.)

(c) Determine where the function is increasing and where it is decreasing.

The function is increasing on the interval

(Type your answer in interval notation.)



Answers up

x = -3

A. The x-intercept(s) is/are -7,1

(Type an integer or a decimal. Use a comma to separate answers as needed.)

(Type an integer or a decimal.) A. The y-intercept is -7

A The y-intercept is
$$-7$$
 (Type an integer or a decimal.)
A The y-intercept is -7 (Type an integer or a decimal.)
 $4 = \chi + 6\chi - 7$
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 $\gamma = \alpha (\chi + b) + c$ https://xlitemprod.pearsoncmg.com/api/v1/print/math 9= a(x-3) - 15 + use (3, -15) valia V 25. $-6 = 6(-3)^{2} - 15$ -6 = 6(-3)(-3) - 15 -6 = 6(-3)(-3) - 15 $-6 = 76(-1)^{2} - 15$ $y = 6(-3)(-1)^{2} - 15$ y = 1((x-3)(-3) - 15 y = 1((x-3)(-3) - 15-5 6+15=99-15+15 y-1(x2-6x+9)-15 (0, -6)-10y=1x2-6x+9-15 9=96 y-mlen -6x-6) Answer: $x^2 - 6x - 6$ =a ID: 2.4.49 26. Determine, without graphing, whether the given quadratic function has a maximum value or a minimum value and then find graph opens the value. CHARLY SU has a Max f(x) = -3x2+30x-6 $f(x) = -3x^2 + 30x - 6$ Does the quadratic function f have a minimum value or a maximum value? a = 3, b = 30, c = -6The function f has a minimum value. Ver $U_{x} = \begin{pmatrix} -b \\ 2a \end{pmatrix} + \begin{pmatrix} -b \\ 2a \end{pmatrix}$ 0 The function f has a maximum value. 0 What is this minimum or maximum value? Verter $= \begin{pmatrix} -(30) \\ 3(-3) \end{pmatrix}$ Velux = (-30 +1-5 (Simplify your answer.) Answers The function f has a maximum value. f(s)4= (5, 69 4=(5, -3(5)2+30(5)-6) 4-(5, -3(5)(5)+30(5)-6) ID: 2.4.59 +30(5)-6) Vala=15, -3(25) -75+150-6) Verly = (5 75-61 Verlax = 15 , 69)

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27. Find the complex zeros of the quadratic function. Graph the function and label the intercepts.

$$f(x) = x^2 - 12x + 72$$

The zeros of the function are

(Simplify your answer, including any radicals and i as needed. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)



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28. Use the rational zeros theorem to find all the real zeros of the polynomial function. Use the zeros to factor f over the real eorem to find all the real zeros of the polynomial function. Use the zeros to have $L_{45} + 3$ $f(x) = (x^{3} + 9x^{2} - 25x - 33)$ $P_{0} = f(x^{3} + 9x^{2} - 25x - 33)$ $P_{0} = f(x^{3} + 9x^{2} - 25x - 33)$ numbers. $f(x) = x^3 + 9x^2 - 25x - 33$ Find the real zeros of f. Select the correct choice below and, if necessary, fill in the answer box to complete your answer. ±33, ±11, ±3, ±1 ○ A. x= (Simplify your answer. Type an exact answer, using radicals as needed. Use integers or fractions for any rational numbers in the expression. Use a comma to separate answers as 왕 부분 특3) 분 = needed.) B. There are no real zeros. Possbu ± 33, ±11, ±3, ±1= Use the real zeros to factor f. f(x) =(Simplify your answer. Type your answer in factored form. Type an exact answer, using radicals as needed. Use integers or fractions for any rational numbers in the expression.) USC Synthetic Clubson try X=-T Answers A. x = -11, -1, 3 (Simplify your answer. Type an exact answer, using radicals as needed. Use integers or fractions for any rational numbers in the expression. Use a comma to separate answers as needed.) (x + 1)(x + 11)(x - 3)ID: 3.2.45 +8x-33= (X-3) (X+1) = 0 $A_{1} \times -3 = 0 \quad OR \quad X+11 = 0$ $x - 3 + 3 = 0 + 3 \quad OR \quad X+11 - 11 = 0 - 11$ $(X = 3) \quad OR \quad X - = -11$ abstr

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USSIBU ν' 29. Use the rational zeros theorem to find all the real zeros of the polynomial function. Use the zeros to factor f over the real numbers. tx1=1x+10x2-20x -50 K+99 $f(x) = x^4 + 10x^3 - 20x^2 - 90x + 99$ What are the real zeros? Select the correct choice below and, if necessary, fill in the answer box to complete your answer. 11 9 +11 TS ○ A. x= 14 (Simplify your answer. Type an exact answer, using radicals as needed. Use integers or fractions for any rational numbers in the expression. Use a comma to separate answers as +(4×+33=2/=89 needed.) t1. O B. There are no real zeros. Use the real zeros to factor f. X-4 3 2 (1) 01 X-11=0 f(x) =(Simplify your answer. Type your answer in factored form. Type an exact answer, using radicals as needed. Use integers 01 X-11-11=0-11 or fractions for any rational numbers in the expression.) X-13-3=0-3 Answers A. x = -11,1,3, -3 (Simplify your answer. Type an exact answer, using radicals as needed. Use integers or fractions for any rational numbers in the expression. Use a comma to separate answers as needed.) ansi (x + 11)(x - 1)(x + 3)(x - 3)ID: 3.2.53 76 - 36 30. Solve the equation in the real number system. $5x^4 - 36x^3 + 87x^2 - 76x + 12 = 0$ What are the real solutions of the equation? Select the correct choice below and fill in any answer boxes in your choice. ±12, 56, ±4, ±3, ±1, ±1 26 25. -6 ○ A. x= 12 45 -11 (Simplify your answer. Type an exact answer, using radicals as needed. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed. Type each answer only once; do not duplicate answers in the case of repeated roots.) O B. There are no real solutions. (1x-1)(x-2)=0 5x-1=0 on X-2=0 <u>-</u>, 2, 3 Answer: A. x = (Simplify your answer. Type an exact answer, using radicals as needed. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed. Type each answer only once; do not duplicate answers in the case of repeated roots.) X-7-12-0-+ = 07, ID: 3.2.67 29 of 41 8/29/2019, 9:56 AM

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31. Find the vertical, horizontal, and oblique asymptotes, if any, for the following rational function.

 $R(x) = \frac{13x}{x+20}$

Select the correct choice below and fill in any answer boxes within your choice.

- A. The vertical asymptote(s) is/are x = (Use a comma to separate answers as needed.)
- **B.** There is no vertical asymptote.

Select the correct choice below and fill in any answer boxes within your choice.

- B. There is no horizontal asymptote.

Select the correct choice below and fill in any answer boxes within your choice,

- A. The oblique asymptote(s) is/are y = (Use a comma to separate answers as needed.)
- **B.** There is no oblique asymptote.

Answers A. The vertical asymptote(s) is/are x = -20 .(Use a comma to separate answers as needed.)

A. The horizontal asymptote(s) is/are y = **13** .(Use a comma to separate answers as needed.)

B. There is no oblique asymptote. MAX+20=0 +20-20=0

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32. For f(x) = 6x + 2 and g(x) = 8x, find the following composite functions and state the domain of each.

(a) $f \circ g$ (b) $g \circ f$ (c) $f \circ f$ (d) $g \circ g$

(a) $(f \circ g)(x) =$ (Simplify your answer.)

Select the correct choice below and fill in any answer boxes within your choice.

- \bigcirc **B.** The domain of f \circ g is all real numbers.
- (b) $(g \circ f)(x) =$ (Simplify your answer.)

Select the correct choice below and fill in any answer boxes within your choice.

- A. The domain of g o f is {x .
 (Type an inequality. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)
- \bigcirc **B.** The domain of g \circ f is all real numbers.
- (c) $(f \circ f)(x) =$ (Simplify your answer.)

Select the correct choice below and fill in any answer boxes within your choice.

- A. The domain of f ∘ f is {x |_____}.
 (Type an inequality. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)
- B. The domain of f ∘ f is all real numbers.
- (d) $(g \circ g)(x) =$ (Simplify your answer.)

Select the correct choice below and fill in any answer boxes within your choice.

○ A. The domain of g ∘ g is {x |_____}.
 (Type an inequality. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)

 \bigcirc **B.** The domain of g \circ g is all real numbers.

Answers 48x + 2

B. The domain of f o g is all real numbers.

48x + 16

B. The domain of g o f is all real numbers.

36x + 14

B. The domain of f o f is all real numbers.

64x

B. The domain of $g \circ g$ is all real numbers.

ID: 4.1.23



fx)= 6x+2 and g(x)= PX

(Fos)x)= f(90))= f(8x)= (Jumm) (-10,10) 6(8x+2) = 48×+2=





fx7=6x+2 m (96)=8x (fof)Ar f(fa)= f(6x+2)= 6(64+2)+2 = 368+12+2= 1 Mai -p, N)36×+ 14 = fax1=6x+2 al 5(x)=8x 32. (909)(X) = 9(50) = 9(8×)= 7(8×)= 64X = 10 man

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The function f(y) = 3x + 1 is one-house.
(a) Find the inverse of f and check the answer:
(b) Find the domain and the range of f and f⁻¹.
(c) Graph f, f⁻¹, and y = x on the same coordinate axes,
(a)
$$f^{-1}(x) = \boxed{\qquad}$$

(b) Find the domain of f. Select the correct choice below and, if
necessary, fill in the answer box to complete your choice.
A The domain is $\{x|x \neq ___\}$.
B. The domain is $\{x|x \neq __]$.
C. The domain is $\{x|x \neq __]$.
B. The domain is $\{x|x \neq __]$.
C. The domain is the sof of all real
numbers.
Find the range is $\{y|y \equiv _]$.
D. The domain is $\{x|x \neq __]$.
D. The range is the sof of all real
numbers.
Find the domain of f⁻¹. Select the correct choice below and, if
necessary, fill in the answer box to complete your choice.
A The range is $\{x|x \neq __]$.
D. The domain is $\{x|x \neq __]$.
E. The domain is $\{x|x \neq __]$.
D. The range is the set of all real
numbers.
Find the domain of f⁻¹. Select the correct choice below and, if
necessary, fill in the answer box to complete your choice.
A The range is $\{y|y \equiv _]$.
C. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
C. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
C. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
C. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
C. The domain is $\{x|x \neq _]$.
D. The domain is $\{x|x \neq _]$.
C. The domain is $\{x|x = _]$.
B. The range is $\{y|y \equiv _]$.
C. The range is $\{y|y \equiv _]$.
D. The range is to to complete your choice.
A The range is $\{y|y \equiv _]$.
D. The range is the set of all real numbers.
(c) Graph i, f⁻¹, and $y = x$ on the same coordinate axes. Use
the graphing tool to graph the functions.
(c) Graph i, f⁻¹, and $y = x$ on the same coordinate axes. Use

Answers
$$\frac{x-1}{3}$$

- D. The domain is the set of all real numbers.
- D. The range is the set of all real numbers.
- D. The domain is the set of all real numbers.
- D. The range is the set of all real numbers.

ID: 4.2.53 25 Newrite Solve the equation. 34. $32^{-x+24} = 128^{x}$ The solution set is { (Type an integer or a simplified fraction. Use a comma to separate answers as needed.) -5× +120 \mathbb{Z}_{\times} Answer: 10 -5x +120 = 7x ID: 4.3.73 -52 - +120 - 10 = 7x-120 -5x =7x-120 $-5\chi -7\chi = 7\chi - 120 - 7\chi$ -12X=-120 X=10 35 of 41 8/29/2019, 9:56 AM

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35.	Solve the equation. $\log_2(8X-15) = 4$
	$\log_2(8x+5) = 4$
	$\log_{2}(8x+5) = 4$ Change the given logarithmic equation to exponential form. 24 = 7 × 15 (VEW rite)
	Change the given logarithmic equation to exponential form. $2^{\prime} = 7 \times 15^{\prime}$
	(Type an equation. Do not simplify.) $2 \cdot 2 \cdot 2 \cdot 2 = 8 \times + 5$
	The solution set is $\{$ $\}$. (Simplify your answer. Use a comma to separate answers as needed.) $/6 = 8 \times -8 $
	Answers $8x + 5 = 2^4$ 16 - 5 = $8x + 5 - 5$
	$11 11 = 8 \times 11$
	8
	3- 5 (4=>)
	ID: 4.4.91-Setup & Solve
36	Solve by using the quadratic formula. $x=1$ $b=2$ $c=-75$
00.	1 -1 +1/12 UGI CONTRACTOR
	$x^{2}-2x-15=0 \chi = \frac{-5-06-44c}{2a} = -(-2)+V(-2)^{2}-4(D(-15)) = \frac{2+14+60}{2}$
	The solution set is {
	(Simplify your answer. Use a comma to separate answers as needed. Express complex numbers in terms of <i>i</i> . Type an
	exact answer, using radicals as needed.) $= 2 \pm \sqrt{6} \sqrt{1 + 1 + 4}$
	$\begin{array}{c} x = 1 - \gamma on, k = 1 + 9 \\ \hline \end{array} \qquad \qquad$
	Answer: - 3,5
	$(1=-5)OR(1-1) = \frac{2+0}{2}$
-	ID: 4.6.1
war 37.	Solve the following logarithmic equation.
	log ₂ x = 2
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice,
	○ A. The solution set is { }.
	(Simplify your answer. Type an exact answer. Use a comma to separate answers as needed.)
	O B. There is no solution.
	Answer: A. The solution set is
	(Simplify your answer. Type an exact answer. Use a comma to separate answers as needed.)
	ID: 4.6.5 $log_2(x) = 2$
	1
	2 = × (Vewrite)
	202 = X
	CY=X JVII
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finalm1314	COC050sullIljjRZZ04-Alfredo Alvarez	https://xlitemprod.pearsonemg.com/api/v1/print/math
J _{38.}	Solve the following logarithmic equation.	$(09_3 (3_2) = 3$
	log ₃ (3x) = 3	33= 3× (rewite)
	Select the correct choice below and, if necessary, fill in the answer box to comp	
	 A. The solution set is {}. (Simplify your answer. Type an exact answer. Use a comma to separate needed.) 	
	O B. There is no solution.	3 3
	Answer: A. The solution set is 9 . (Simplify your answer. Type an exact answer. Use a comma to separ	rate answers as needed.)
	ID: 4.6.7	
م ^ل عن 39.	Solve the logarithmic equation.	9, (X+3) = Log, (13)
	$\log_2(x+3) = \log_2 13$	$92(x+3) = Cog_2(13)$ x+3 = 13 ((with) x+3-3 = 13 - 3
	Determine the equation to be solved after removing the logarithm.	1-+3-3=13-3
	(Type an equation. Do not simplify.)	$\sqrt{-10}$
	Select the correct choice below and, if necessary, fill in the answer box to comp	plete your choice.
	 A. The solution set is {}. (Simplify your answer. Type an exact answer. Use a comma to separate needed.) 	e answers as
	○ B. There is no solution.	
	Answers x + 3 = 13	
	A. The solution set is 10 . (Simplify your answer. Type an exact answer. Use a comma to sepa	rate answers as needed.)
	ID: 4.6.9-Setup & Solve	

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finalm13140	$COC050 \text{ sulllij} \mathbb{R} \mathbb{Z} \mathbb{Z} 04 \text{ - Alfredo Alvarez} \qquad \qquad$	
40.	Solve the logarithmic equation. $(U_{3}(X)(X+S)) = 1$ $(U_{3}(X)(X+S)) = 1$	
	$\log x + \log (x+9) = 1$ $/(1 - 2 \times (x - 19) + \log (x - 14) + \log (1 - 14) = 1$	
	Determine the equation to be solved after removing the logarithm. (333)	
	10 = X2 + 5X Goud Gord	
	(Type an equation. Do not simplify.) $O = \chi^2 + 5\chi - 15$	
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice. (1) = 1	
	$U = (\chi - 1) + U = 1$	
	 A. The solution set is {}. (Simplify your answer. Type an exact answer. Use a comma to separate answers as 	
	needed.) $X-1=0$ dR $X-1/J=0$ $dhShrin$	
	• B. There is no solution. $\chi - 1 + 1 = U + 1$ OR $\chi + 1 U - 1 U = U + 2$	
	Answers $x(x+9)=10$ $(x=1)$ $(x=1)$ $(x=1)$ $(x=1)$ $(x=1)$	
	A. The solution set is $\{1, \dots, n\}$	
	(Simplify your answer. Type an exact answer. Use a comma to separate answers as needed.) For much $log(A) - log(B) = log(AB)$	
	ID: 4.6.17-Setup & Solve	
-	man and man and	
41.	Find the amount that results from the given investment. $A = P(1 + \frac{1}{N}) \frac{1}{2} \frac$	
	\$100 invested at 10% compounded quarterly after a period of 4 years $A = 100(1+010)$ $V = 102_0 = 0.10$	
	After 4 years, the investment results in \$ $A = 100 (1 + 0.10/4)^{16} = 4 = 0 \text{ moder}$ (Round to the nearest cent as needed.)	
	Answer: 148.45 $A = 148.4505621$	
	or 1/2 1	
	ID: 4.7.7 A-147.45 Rowl	
42. Find the amount that results from the given investment. $A = P(1 + \xi)^{NE} P = 100$		
(\$100 invested at 2% compared daily after a pariadat 2 years		
	After 2 years, the investment results in \$ $A=7\omega(1+.02)$ $N=360=Daily$	
	(Round to the nearest cent as needed.) $1 - \frac{1}{100}$	
	Answer: 104.08	
	A=104.08 A=104.0809618 V	
	ID: 4.7.11 # OR	
(H=104.07 / Rund		

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finalm1314COC050sullIljjRZZ04-Alfredo Alvarez https://xlitemprod.pearsoncmg.com/api/v1/print/math AFF 00->200 43. How long does it take for an investment to double in value if it is invested at 5% compounded quarterly? Compounded .05146 continuously? 200 = 100(1+)200=100 At 5% compounded quarterly, the investment doubles in about years. (Round to two decimal places as needed.) At 5% compounded continuously, the investment doubles in about years. 4 2 (3.94940762= than (2)= h (C (Round to two decimal places as needed.) W = 100 (17:05) un/ h(2)= . 056h (1) $\begin{array}{rcl} 13.95 & 2 = (1 + .05/4) + (13.95) \\ 13.86 & (2) = h (1 + .05/4) \\ 4t \\ \end{array}$ R(2) = 005 E(1)Answers 13.95 2) 2.05 E OR ID: 4.7.35 lm(2) = 46 h (14.0 574) 1) 2,056 AD186 -+, U5/4) - - 4th 13086294361=6 hull+. 05/4 If Tanisha has \$1,000 to invest at 5% per annum compounded semiannually, how long will it be before she has \$1,4002. 44. the compounding is continuous, how long will it be? A = P(++-) formula years before Tanisha has \$1,400. Compounding semiannually, it will be about (Round to two decimal places as needed.) $14\omega = 1000$ (14 25 Compounding continuously, it will be about years before Tanisha has \$1,400. (Round to two decimal places as needed.) / Y V - 1000 (1-1 -1 1000 $6.81 \quad 1.9 = (1 + .05)^{2t} \quad (0.000 \quad 0.000 \quad 0.000$ Answers 6.81 ID: 4.7.39 _ How many years will it take for an initial investment of \$10,000 to grow to \$35,000? Assume a rate of interest of 20% 45 compounded continuously. years for the investment to grow to \$35,000. h(3,5) = 206h(r)It will take about (Round to two decimal places as needed.) ,206 35000 = 10000 C .204 (3.5) = . LUE A) Answer: 6.26 3.5= ID: 4.7.41 The half-life of carbon-14 is 5600 years. If a piece of charcoal made from the wood of a tree shows only 63% of the 46. carbon-14 expected in living matter, when did the tree die? Malt-Liter formites (The tree died about years ago. (Do not round until the final answer. Then round to the nearest whole number.) Answer: 3733 5600 560 h (.63) - 560 + ID: 4.8.11 h(.63)=h 39 of 41 8/29/2019, 9:56 AM

finalm1314COC050sullljjRZZ04-Alfredo Alvarez https://xlitemprod.pearsoncmg.com/api/v1/print/math 211 = 84 47. Solve the system of equations. If the system has no solution, say that it is inconsistent. 3x-59=-1 25x+59=85 3x - 5y = -121×+0=86 Select the correct choice below and, if necessary, fill in any answer boxes within your choice. \bigcirc **A.** The solution of the system is x = and y =(Type an integers or simplified fractions.) ○ B. There are infinitely many solutions. Using ordered pairs, the solution can be written as $\{(x,y) | x =$, y any real number}. (Simplify your answer. Type an expression using y as the variable as needed.) C. The system is inconsistent. Answer: A. The solution of the system is $x = \frac{1}{2}$ 3 and y = (Type an integers or simplified fractions.) ID: 6.1.33 48. Solve the given system of equations. If the system has no solution, say that it is inconsistent. 2x + y + z = 5 -2x + 3y - 3z = -152nd, Mitrix, edit, (A. Select the correct choice below and fill in any answer boxes within your choice \bigcirc **A.** The solution is x = , y = _ , and z = (Type integers or simplified fractions.) ○ B. There are infinitely many solutions. Using ordered triplets, they can be expressed as , y = $\{(\mathbf{x},\mathbf{y},\mathbf{z}) \mid \mathbf{x} =$, z any real number}. (Simplify your answers. Type expressions using z as the variable as needed.) ○ C. There are infinitely many solutions. Using ordered triplets, they can be expressed as $\{(x,y,z) | x =$, y any real number, z any real number}. (Simplify your answer. Type an expression using y and z as the variables as needed.) O D. The system is inconsistent. Answer: A. The solution is x = -2 (Type integers or simplified 3 v = and z = 1 fractions.) rre H ID: 6.1.45 19. 40 of 41 8/29/2019, 9:56 AM

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 $\begin{array}{c} 1 \text{ the sum of the sequence.} \\ \begin{array}{c} 5\\ 5\\ k=1 \end{array} \end{array} \begin{array}{c} 1 \left(1 \left(1 \right) + 9 \right) + \left(7 \left(1 \right) \right) + 7 \left(7 \left(1 \right) \right) +$ 49. Find the sum of the sequence. $\sum_{k=1}^{5} (7k+9) =$ Mith, V, Summatin E, enter Answer: 150 (7×+9)) = 1506 ID: 7.1.73 50. Expand the expression using the binomial theorem. $(x+3)^4$ $(x+3)^4 =$ Answer: $x^4 + 12x^3 + 54x^2 + 108x + 81$ $\begin{array}{c} \text{ID: 7.5.17} \\ (X+3)^{4} \\ (X+3)^{4} \\ (X)^{4} \\ (X)^{3} \\ (X)^{3}$ (1)(x')(1) + (4)(x')(3) + (6)(x')(9) + (4)(x)(27)+(1)(+ 12x + 54x + 108x + 81= St Stoph. Mash, prb, NCr, enter, a, enter = Milly Pob, Mcr, enlar, 1, enlar = 4 milly Milly Mcr, enlar, 2, enlar = 6 g milly Mrs, Mcr, enlar, 3, enlar = 4 4, Milliphs, Mcr, enlar 4, enlar = 1 + 41 of 41 8/29/2019, 9:56 AM

