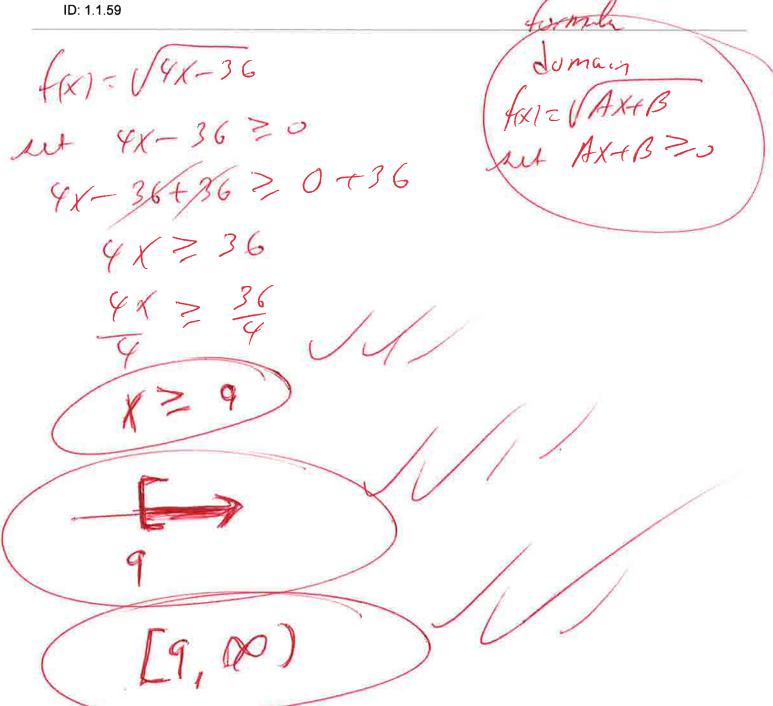
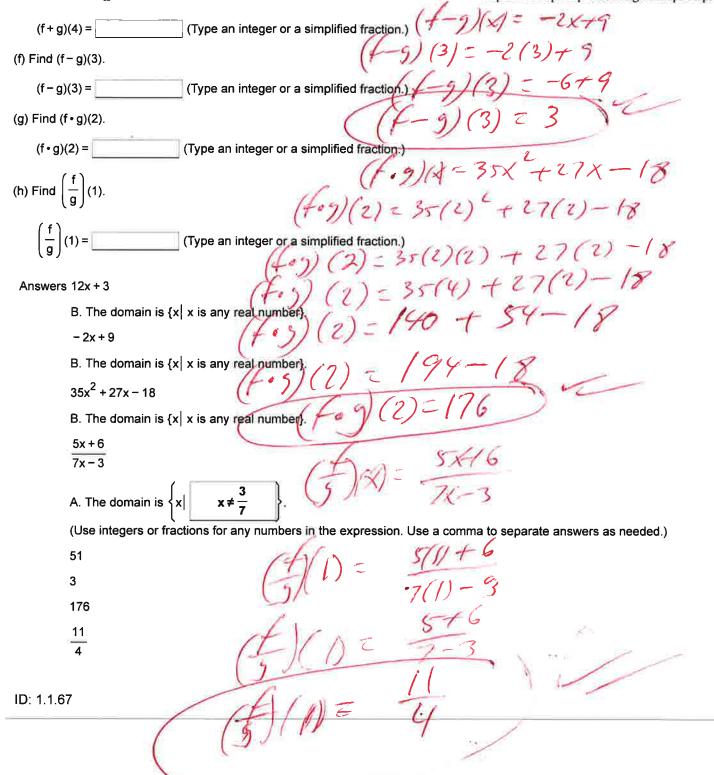
5. Find the domain of the function.

$$f(x) = \sqrt{4x - 36}$$

Answer: [9,∞)



6.	For the given functions f and g, complete parts (a)-(h). For parts (a)-(d), also find the domain.
	f(x) = 5x + 6; g(x) = 7x - 3
	(a) Find $(f+g)(x)$ .
	(5X+6) + (7X-3) = COMM
	(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 your
	choice. 12X+3 z
	○ A. The domain is {x
	(Use integers or fractions for any numbers in the expression. Use a comma to separate
	answers as needed.) $(f-g)$
	B. The domain is $\{x \mid x \text{ is any real number}\}$ .
	(b) Find $(f-g)(x)$ . $(5x+6) - (7x-3) = (3x+6) - (3x+6) $
	(f-g)(x) = (Simplify your answer.) $5x+6-7x+3 = (-x)$
	What is the domain of f – g? Select the correct choice below and, if necessary, fill in the answer box to complete your
	choice. $\frac{-2 \times +9}{2}$
	A. The domain is $\{x   x \}$ .  (Use integers or fractions for any numbers in the expression. Use a comma to separate
	answers as needed.)
	O B. The domain is {x   x is any real number}.
	(c) Find (f • g)(x).
	(5x+6)(1x-5)-
	$(f \cdot 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.
	A. The domain is $\{x \mid x \mid$
	(Use integers or fractions for any numbers in the expression. Use a comma to separate
	allowers as needed.)
	B. The domain is {x   x is any real number}.
	(d) Find $\left(\frac{f}{g}\right)(x)$ .
	(d) Tild (g) (x).
	$\left(\frac{f}{g}\right)(x) =$ (Simplify your answer.)
	(g)(x) = (Simplify your ariswer.)
	What is the densire of 2 Calcut the connect shall be be set of the second by the secon
	What is the domain of $\frac{1}{g}$ ? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
	F + 9  X  - 10  X
	(Use integers or fractions for any numbers in the expression. Use a comma to separate
	answers as needed.) $(++9)(4) = 12(4) + 3$
	B. The domain is {x   x is any real number}
	(e) Find $(f+g)(4)$ .
	(1-1)(4)=3/



٠.	ror the	given functions rand g, complete parts (a)-(n). For parts (a)-(d), also find the domain,
	f(x)	$= x - 3$ ; $g(x) = 6x^2$
	(a) Find	(f+g)(x). $f(x) + g(x) = f(x)$
	(f +	(f+g)(x). $(f+g)(x)$
		the domain of f + g? Select the correct choice below and, if necessary, fill in the answer box to complete your
	choice.	6x2+x-3 200
	○ A.	The domain is $\{x   x   x   x   x   x   x   x   x   x  $
		(Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)
	○ B.	The domain is {x   x is any real number}.
	(b) Find	$(f-g)(x). \qquad (X-3)-(6x^2)=dunay$
	(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 your
	choice.	(-6x + x-3 5)
	$\bigcirc$ $\land$	
		The domain is $\{x \mid x \mid \}$ . (Use integers or fractions for any numbers in the expression. Use a comma to separate
		answers as needed.)
	○ B.	The domain is {x   x is any real number}.
	(c) Find	(f·g)(x).
	(f • (	(Simplify your answer.) $(8 - 2 - 2 - 2)$
	What is	the domain of f • g? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
	<b>Ω</b> Δ ·	The domain is $\{x \mid x \mid$
		(Use integers or fractions for any numbers in the expression. Use a comma to separate
		answers as needed.)
	О В.	The domain is {x   x is any real number}.
	(d) Find	$\left(\frac{f}{g}\right)(x)$ .
		1-2 1/1-40
	$\left(\frac{1}{a}\right)$	(x) = (Simplify your answer.) 6x <sup>2</sup>
	(5	doman (170)
	What is	the domain of $\frac{1}{g}$ ? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
		(++2)(x)=6x+x-3
		The domain is $\{x   \underline{\hspace{1cm}}\}$
		Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)
		The domain is $\{x \mid x \text{ is any real number}\}$ .
	(e) Find	(f+g)(3) $(f+g)(3) = 6(9) + 3(-3)$
	(=)	(t+9) (3) = 54+3-3
		(f. + 5) (3) - C4
		1/9/2020, 11:08 AM

(f+g)(3) = (Typ)

(Type an integer or a simplified fraction.)

(f) Find (f - g)(2).

(f - g)(2) =

(Type an integer or a simplified fraction.)

(g) Find (f • g)(4).

(f • g)(4) =

(Type an integer or a simplified fraction.)

(h) Find  $\left(\frac{f}{g}\right)$  (4).

 $\left(\frac{f}{g}\right)(4) =$ 

(Type an integer or a simplified fraction.)

fraction.)  $(f \circ g)(x) = 6x \frac{3}{3} - 18x^{1}$ 

Answers  $6x^2 + x - 3$ 

B. The domain is  $\{x \mid x \text{ is any real number}\}$ .

 $-6x^2 + x - 3$ 

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

 $6x^3 - 18x^2$ 

B. The domain is  $\{x \mid x \text{ is any real number}\}$ .

 $\frac{x-3}{ev^2}$ 

A. The descripts ( )

A. The domain is  $\{x \mid x \neq 0\}$ .

(Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)

54

- 25

96

1 96 (3)(4)z

6(4)(4)

76

ID: 1.1.69

Find the difference quotient of f; that is, find  $\frac{f(x+h)-f(x)}{h}$ ,  $h \neq 0$ , for the following function. Be sure to simplify.

 $f(x) = x^2 - 9x + 4 - (x+h) - 9(x+h) + 4 - (x^2 - 9x + 4) =$ 

 $\frac{f(x+h)-f(x)}{h} = \frac{(x-th)(x-th)-gx-gh+y-x-fgx-y}{}$ 

Answer: 2x+h-9 X2+1xh+1xh+h-9x-9h+4-x279x-y

10:1183 8+2xh+h2-9x-9h+4-149x4

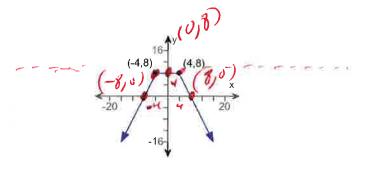
1D: 1.1.83 X + 2xh + h - 9x - 9h + 4 - x + 9x - 4

2xh+h2-95 = 2xh+h2-96

2 X+h-9
1/9/2020, 11:08-AN

 Determine whether the graph is that of a function by using the vertical-line test. If it is, use the graph to find

- (a) its domain and range.
- (b) the intercepts, if any.
- (c) any symmetry with respect to the x-axis, y-axis, or the origin.



Is the graph that of a function?



If the graph is that of a function, what are the domain and range of the function? Select the correct choice below and fill in any answer boxes within your choice

A. The domain is (Type your answers in interval notation.)

B. The graph is not a function.

What are the intercepts? Select the correct choice below and fill in any answer boxes within your choice.

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

- OB. There are no intercepts.
- C. The graph is not a function.

Determine if the graph is symmetrical.

- A. It is symmetrical with respect to the origin.
- B. It is symmetrical with respect to the y-axis.
- C. It is symmetrical with respect to the x-axis.
- D. The graph is not symmetrical.
- E. The graph is not a function.

**Answers Yes** 

A. The domain is  $(-\infty,\infty)$ . The range is  $(-\infty,8]$ . (Type your answers in interval notation.)

A. (8,0),(-8,0),(0,8) (Type an ordered pair. Use a comma to separate answers as needed.)

B. It is symmetrical with respect to the y-axis.

ID: 1.2.21

10.	Using the given graph of the function f, find the following.
	<ul> <li>(a) the intercepts, if any</li> <li>(b) its domain and range</li> <li>(c) the intervals on which it is increasing, decreasing, or constant</li> <li>(d) whether it is even, odd, or neither</li> </ul>
	(a) What are the intercepts?  (b) (1) (1) (1) (1) (1) (2) (1) (2) (1) (3) (1) (3) (1) (4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
	(b) The domain is
	(c) On which interval(s) is the graph increasing? Select the correct choice below and fill in any answer boxes within your choice.
	A. The graph is increasing on (Type your answer in interval notation. Use a comma to separate answers as needed.)
	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.
	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.
	(d) The function is (1)
	(1) odd. neither odd nor even.
(	even.

```
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.
```

ID: 1.3.25

11. The function f is defined as follows.

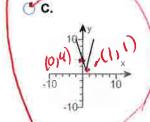
$$f(x) = \begin{cases} -3x + 4 & \text{if } x < 1 \\ 4x - 3 & \text{if } x \ge 1 \end{cases}$$

- (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

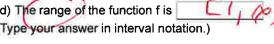
(Type your answer in interval notation.)

- (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 (Type an ordered pair. Use a comma to separate answers as needed.)
- B. There are no intercepts.
- (c) Choose the correct graph below.
- ( A.
- ( ) B.



( D.

(d) The range of the function f is (Type your answer in interval notation.)



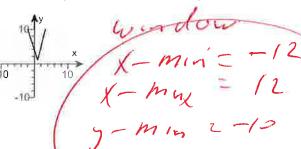


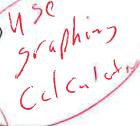
Answers  $(-\infty,\infty)$ 

A. The intercept(s) is/are

(0,4)

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





C.

 $[1,\infty)$ 

ID: 1.4.33

12. The function f is defined as follows.

$$f(x) = \begin{cases} 3+x & \text{if } x < 0 \\ x^2 & \text{if } x \ge 0 \end{cases}$$

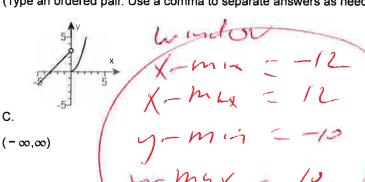
- (a) Find the domain of the function.
- (b) Locate any intercepts.
- (c) Graph the function.
- (d) Based on the graph, find the range.
- (a) The domain of the function f is, (Type your answer in interval notation.)
- (left, rish4)
- (b) Locate any intercepts. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
- A. The intercept(s) is/are (Type an ordered pair. Use a comma to separate answers as needed.) often circle
- B. There are no intercepts.
- (c) Choose the correct graph of f(x) below.
- ( A.
- ( ) B.
- D.

- (d) The range of the function f is
- (Type your answer in interval notation.)

Answers  $(-\infty,\infty)$ 

A. The intercept(s) is/are (-3,0),(0,0)

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



C.

ID: 1.4.37

13. The graph of a function f is illustrated to the right. Use the graph of f as the first step toward graphing each of the following functions.



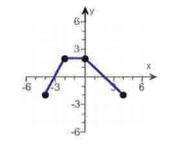
(b) 
$$G(x) = f(x + 3)$$

(c) 
$$P(x) = -f(x)$$

(d) 
$$H(x) = f(x+2) - 3$$

(e) Q(x) = 
$$\frac{1}{2}$$
f(x)

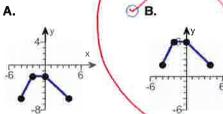
$$(f) g(x) = f(-x)$$



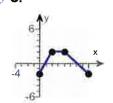
(g) 
$$h(x) = f(2x)$$

(a) Choose the correct graph of F(x) = f(x) + 4 below.

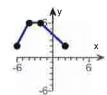




O C.



( D.



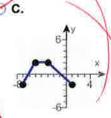
(b) Choose the correct graph of G(x) = f(x + 3) below

## O A.

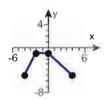


( B.



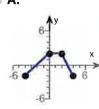


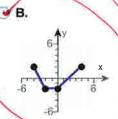
O D.



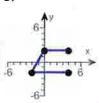
(c) Choose the correct graph of P(x) = -f(x) below.

## ○ A.





O C.



Sh. 4.4

O D.



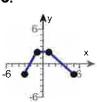
(d) Choose the correct graph of H(x) = f(x + 2) - 3 below.

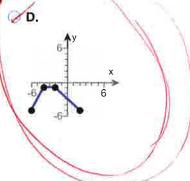




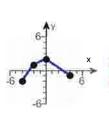


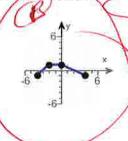
O C.

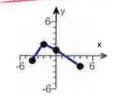


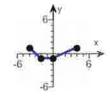


(e) Choose the correct graph of  $Q(x) = \frac{1}{2}f(x)$  below.



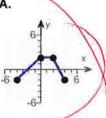






(f) Choose the correct graph of g(x) = f(-x) below.





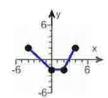




O C.



O D.

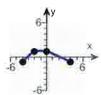


(g) Choose the correct graph of h(x) = f(2x) below.

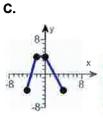


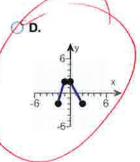


O B.

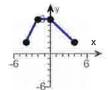


O C.

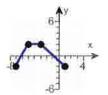




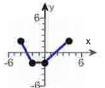
**Answers** 



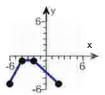
В.



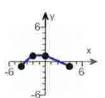
C,



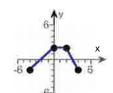
B.



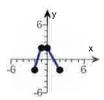
D.



В.



Α,



 $\mathbf{D}_{s}$ 

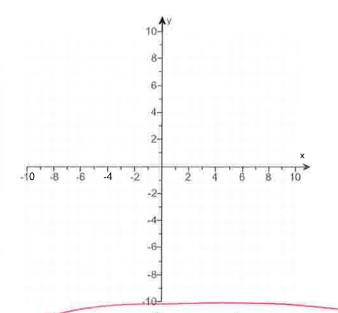
ID: 1.5.63

14.

- (a) Graph f(x) = |x + 2| 4 using transformations.
- (b) Find the area of the region bounded by f and the x-axis that lies below the x-axis.
- (a) Graph f(x).

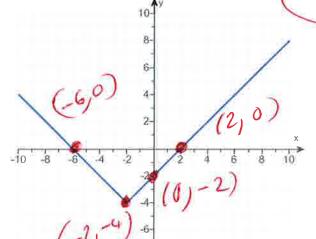
(Use the graphing tool provided to graph the function.)

(b) The area of the region bounded by f and the x-axis that lies below the x-axis is square units. (Simplify your answer.)



fa= |X+2/ =

**Answers** 



1st 2 graphing

ID: 1.5.81

y-min :-10

y-max=10

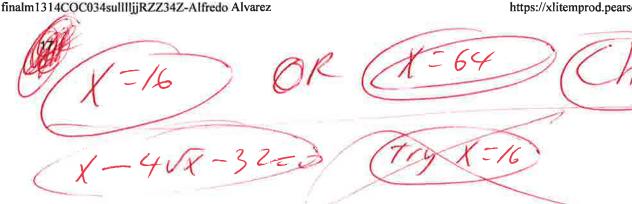
= Mada, Num, abs

91 = abs (X-ta2) Shift left -2

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$$(16) - 4\sqrt{16} - 32 = 2$$

$$(6 - 4(4) - 32 = 2$$

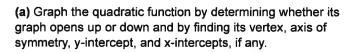
$$(6 - 6 - 32 = 2)$$

$$16 - 16 - 32 = 2$$

$$16 - 16 - 32 = 2$$

$$(64) - 4\sqrt{64} - 32 = 0$$
  
 $64 - 4(8) - 32 = 0$ 

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



Does the graph of f open up or down?

- O up
- down

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.)
- O 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 \_\_\_\_\_.

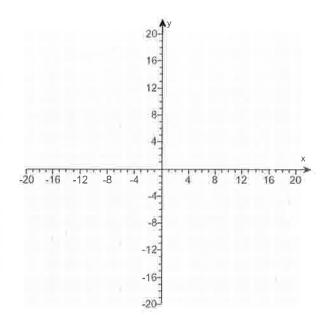
(Type your answer in interval notation.)

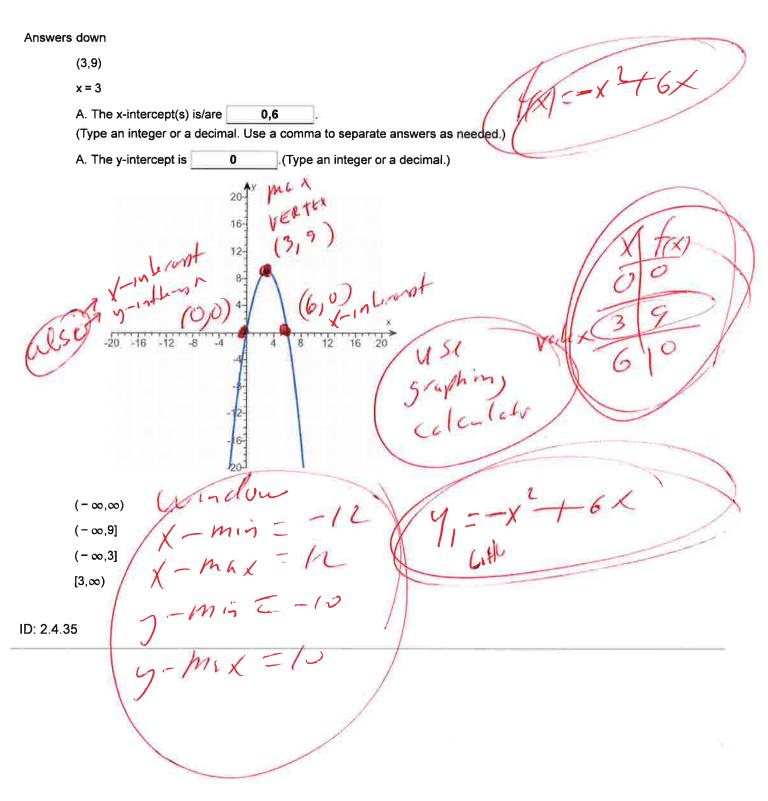
The range of f is

(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.)





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?

- O up
- down

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?

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.)

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.)
- O 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.)

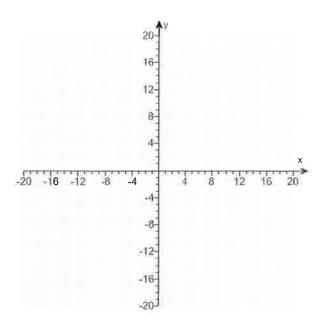
The range of f is

(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.)



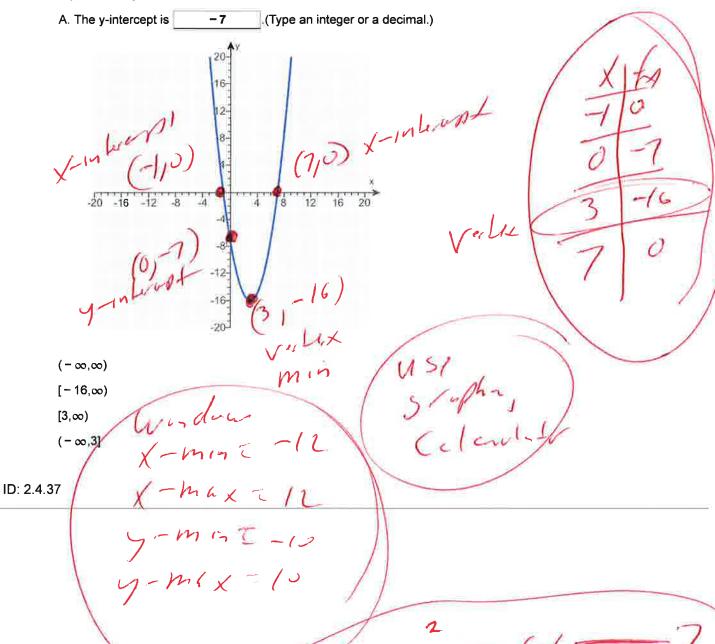


(3, -16)

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.)

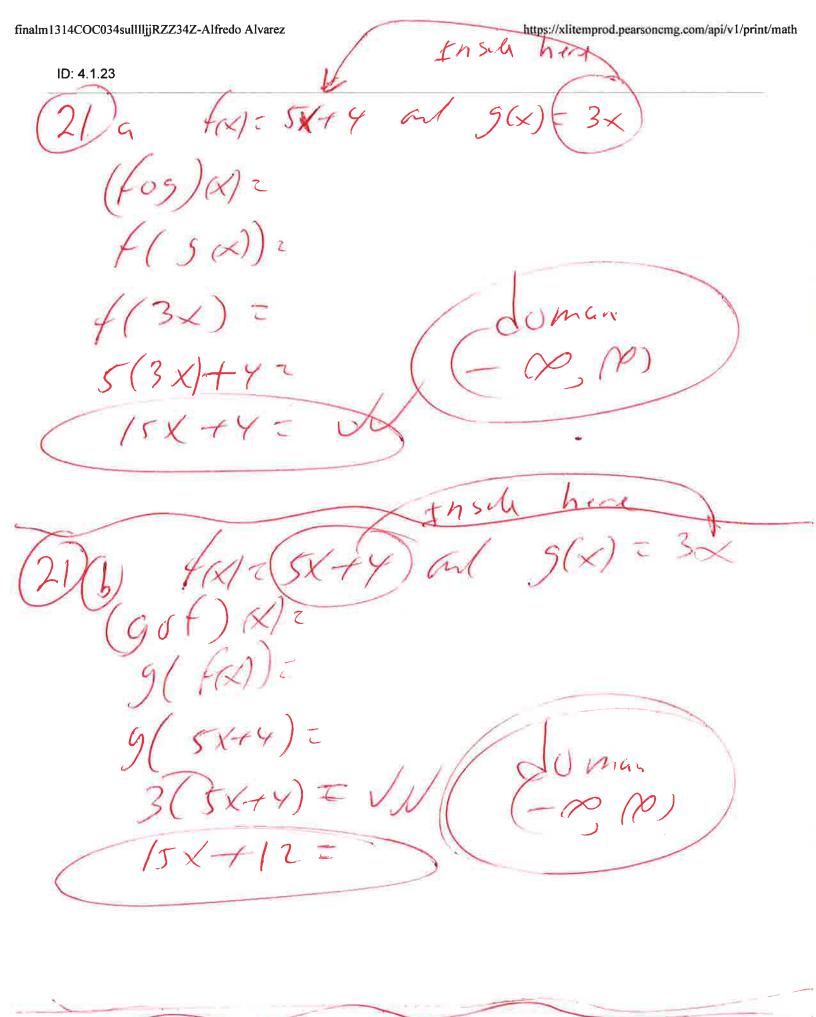


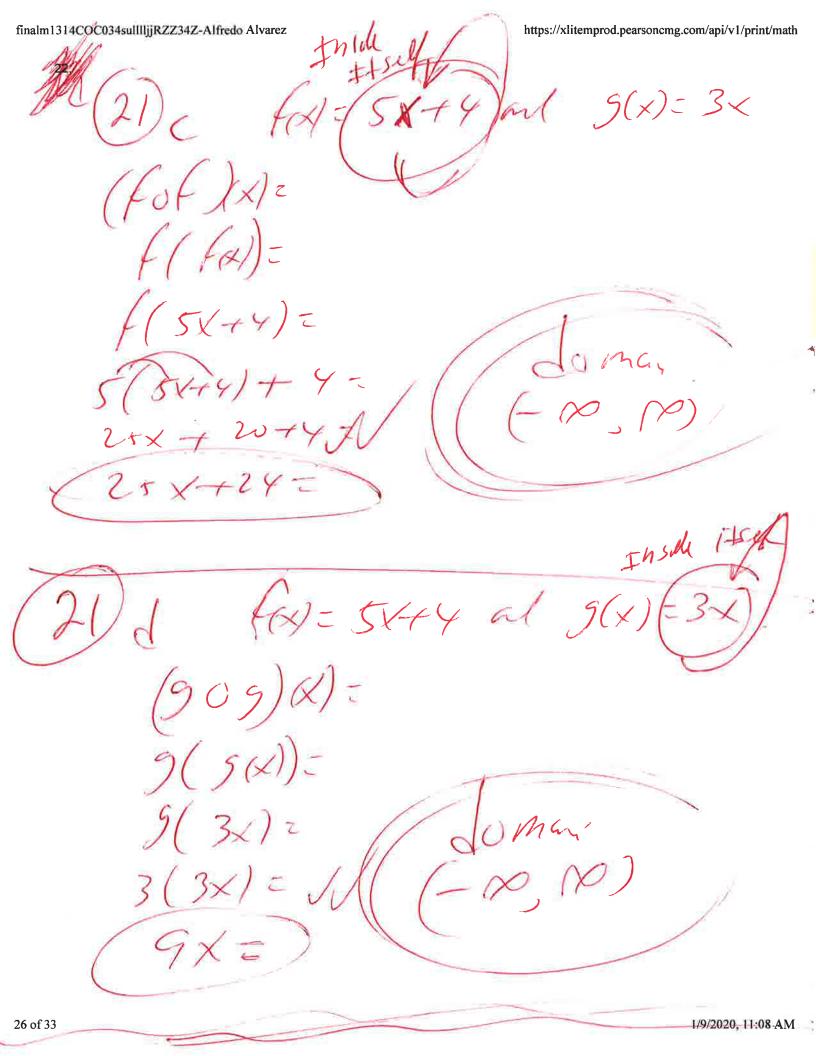
19. Determine, without graphing, whether the given quadratic function has a maximum value or a minimum value and then find 5174 13 MISCHON  $f(x) = -2x^2 + 8x - 6$ Does the quadratic function f have a minimum value or a maximum value The function f has a maximum value. = The function f has a minimum value. What is this minimum or maximum value? (Simplify your answer.) Answers The function f has a maximum value. 2 =(2)-2(2)(2) + 8(2)-6) =(2, -3+16-6) ID: 2.4.59 Find the vertical horizontal, and oblique asymptotes, if any, for the following rational function. Select the correct choice below and fill in any answer boxes within your choice. asymptite. ○ 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. ○ A. The horizontal asymptote(s) is/are y = (Use a comma to separate answers as needed.) 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 < (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 = 6 (Use a comma to separate answers as needed.) Since highest power on top is Same highest power on buttom then then 15 ID: 3.4.45

ligh asymptote

(a) fog (b) gof (c) fof (d) gog
(a) $(f \circ g)(x) =$ (Simplify your answer.)
Select the correct choice below and fill in any answer boxes within your choice.
<ul> <li>○ A. The domain of f ∘ g is {x  }.</li> <li>(Type an inequality. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)</li> </ul>
B. The domain of f ∘ 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.
<ul> <li>○ A. The domain of g ∘ f is {x  }.</li> <li>(Type an inequality. Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)</li> </ul>
○ B. The domain of g ∘ f is all real numbers.
(c) (f ∘ f)(x) = (Simplify your answer.)
Select the correct choice below and fill in any answer boxes within your choice.
A. The domain of f 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.)
○ 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 o g is $\{x \mid \underline{\hspace{1cm}} \}$ .  (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 g ∘ g is all real numbers.
Answers 15x + 4
B. The domain of f ∘ g is all real numbers.
15x + 12
B. The domain of $g \circ f$ is all real numbers.
25x + 24
B. The domain of f o f is all real numbers.
9x
B. The domain of $g \circ g$ is all real numbers.

21. For f(x) = 5x + 4 and g(x) = 3x, find the following composite functions and state the domain of each.





The function f(x) = 6x + 2 is one-to-one.

- (a) Find the inverse of f and check the answer.
- (b) Find the domain and the range of f and f<sup>-1</sup>.
- (c) Graph f,  $f^{-1}$ , and y = x on the same coordinate axes.

(a) 
$$f^{-1}(x) =$$

(Simplify your answer. Use integers or fractions for any numbers in the expression.)

- (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≠\_\_\_\_\_}
- O B. The domain is {x|x≥
- C. The domain is {x|x≤
- O. The domain is the set of all real numbers.

Find the range of f. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

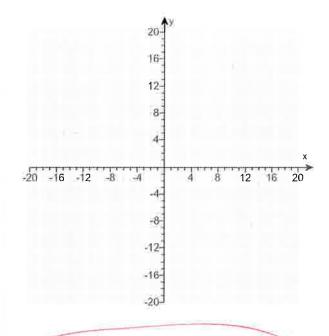
- O A. The range is {y|y≥\_\_\_\_\_}
- OB. The range is {y|y≤ }
- C. The range is {y|y≠ }.
- D. The range is the set of all real numbers.

Find the domain of f<sup>-1</sup>. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- O A. The domain is {x|x≥
- $\bigcirc$  B. The domain is  $\{x | x \le \}$
- C. The domain is {x|x≠
- D. The domain is the set of all real numbers.

Find the range of f<sup>-1</sup>. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The range is {y|y≤ \_\_\_\_\_}
- $\bigcirc$  B. The range is  $\{y|y \ge \}$ .
- $\bigcirc$  **C.** The range is  $\{y|y \neq \}$ .
- O. The range is the set of all real numbers.
- (c) Graph f,  $f^{-1}$ , and y = x on the same coordinate axes. Use the graphing tool to graph the functions.



My 26x+L

if = 69 +1-1

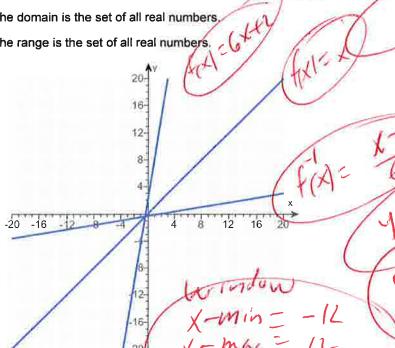
-2 = 69

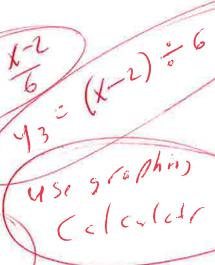
-2 2 6

Answers  $\frac{x-2}{6}$ 

- 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

23. Solve the equation.

$$64^{-x+52} = 128^x$$



The solution set is

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

Answer: 24

ID: 4.3.73

-6 x 2 7x - 3/L

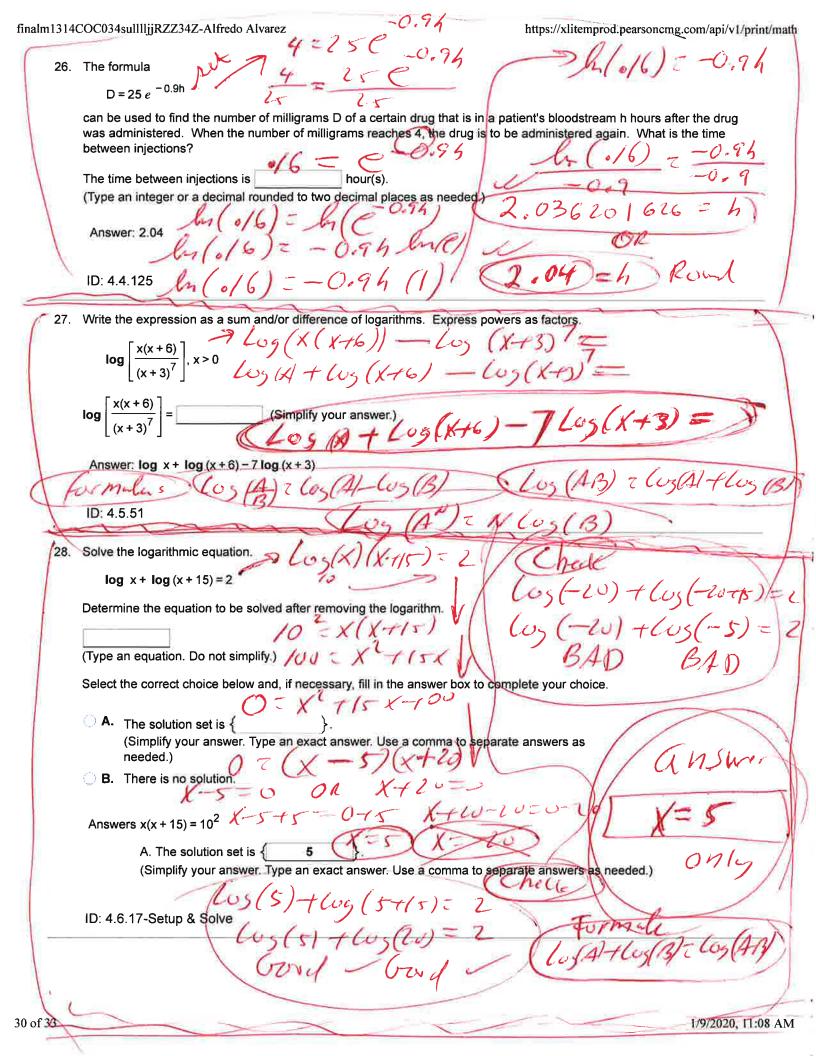
$$-6x - 7x = 7x - 312 - 7x$$

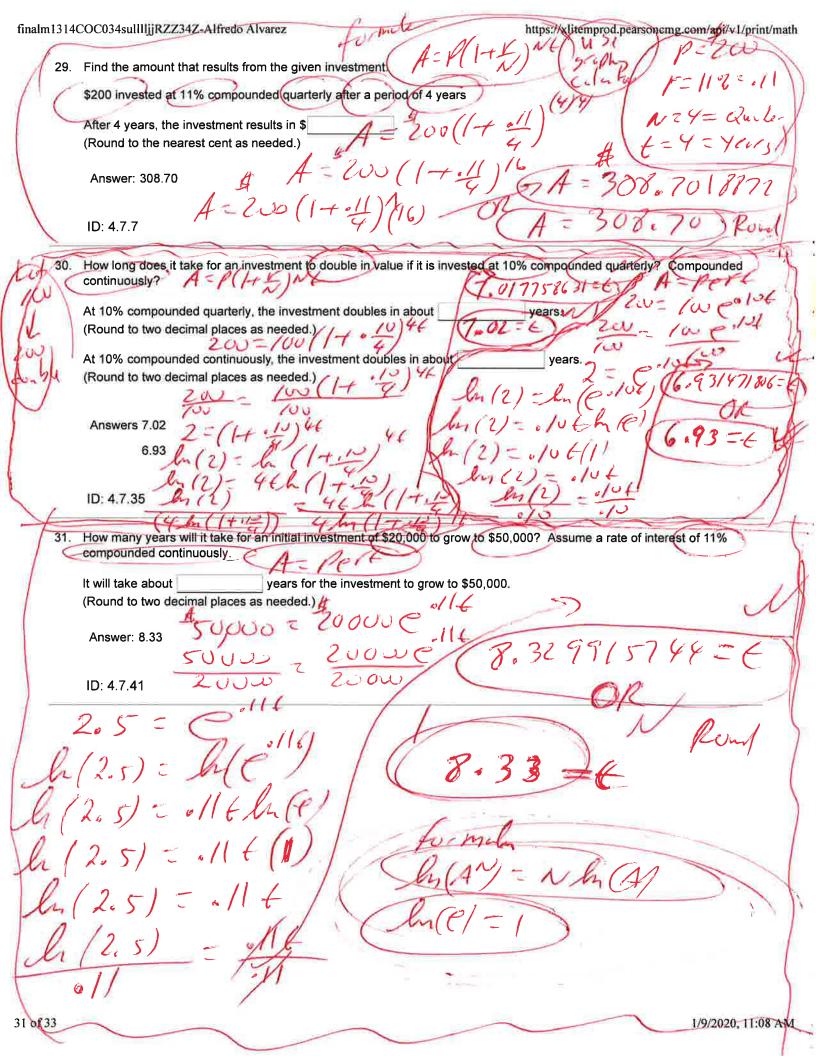
-13 X =-312

$$-3/2$$

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24.	The percentage of patients P who have survived t years after initial diagnosis of a certain disease is modeled by the
	function P(t) = $100(0.8)^t$ . $A11 = 100 = 100 = 100$
	(a) According to the model, what percent of patients survive 1 year after initial diagnosis? (b) What percent of patients survive 3 years after initial diagnosis? (c) Explain the meaning of the base 0.8 in the context of this problem.
	(a) According to the model,
	(b) According to the model,% of patients survive 3 years after initial diagnosis.  (Type an integer or a decimal.)
	(c) Explain the meaning of the base 0.8 in the context of this problem. Select the correct choice below and fill in the answer box to complete your choice. $P(3) = 100(0.8)^{3}$
	A. As each year passes, % of the previous survivors take the diagnosis.
	B. As each year passes, % of the previous year's survivors have survived.
	Answers 80  C. As each year passes, % of the total patients have survived (3) = \$1,2  C. As each year passes, % of the total patients have survived (3) = \$1,2
	51.2
	B. As each year passes, 80 % of the previous year's survivors have survived.
	ID: 4.3.109
25.	Solve the equation. Formy $log_2(2x+3)=3$
25.	Solve the equation (2) 2) = 3
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 = 2 \times 43$
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 = 2 \times 43$
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 = 2x+3$ (Type an equation. Do not simplify.) $2 + 2 + 2 = 2x+3$
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 = 2x+3$ (Type an equation. Do not simplify.)
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 = 2x+3$ (Type an equation. Do not simplify.)  The solution set is (Simplify your answer. Use a comma to separate answers as needed.)  Answers $2x+3=2^3$ $2x+3-3$
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 \times 2 \times 43$ (Type an equation. Do not simplify.)  The solution set is (Simplify your answer. Use a comma to separate answers as needed.) $2 \times 2 \times 43$
25.	Solve the equation. $\log_2(2x+3)=3$ Change the given logarithmic equation to exponential form. $2 = 2x+3$ (Type an equation. Do not simplify.)  The solution set is (Simplify your answer. Use a comma to separate answers as needed.)  Answers $2x+3=2^3$ $3 = 2x+3$





32. Solve the system of equations. If the system has no solution, say that it is inconsistent.

 $\begin{cases} 4x - 2y = -4 \\ 5x + y = 0 \end{cases}$ 

4x-29 = -4 10x+29 = 18

14 - 14 14 - 14 14 - 14

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

- 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 = [

and y =

-29 = -8

(Type an integers or simplified fractions.)

ID: 6.1.33

33. Solve the given system of equations. If the system has no solution, say that it is inconsistent.

1 1 -1 2 -2 -3

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

- 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  $\{(x,y,z) \mid x = y, y = y, z \text{ any real number}\}$ . (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  $\{(x,y,z) \mid x = 0, y \text{ any real number, } z \text{ any real number} \}$ . (Simplify your answer. Type an expression using y and z as the variables as needed.)
- O. The system is inconsistent.

ZND, Mitorx, Math, rest(), toke

Answer: A.

The solution is  $x = \begin{bmatrix} -1 \\ y = \end{bmatrix}$ ,  $y = \begin{bmatrix} -1 \\ y = \end{bmatrix}$ , and  $z = \begin{bmatrix} 2 \\ y = \end{bmatrix}$ . (Type integers or simplified fractions.)

ID: 6.1.45

34. Find the real solutions of the equation.

$$4 + \sqrt{2x - 5} = x$$

Select the correct choice below and, if necessary, fill in the answer box to complete your answer.

- A. The solution set is { (Simplify your answer. Use a comma to separate answers as needed.)
- B. The solution is the empty set.

Answer: A. The solution set is 4 (Simplify your answer. Use a comma to separate answers as needed.)

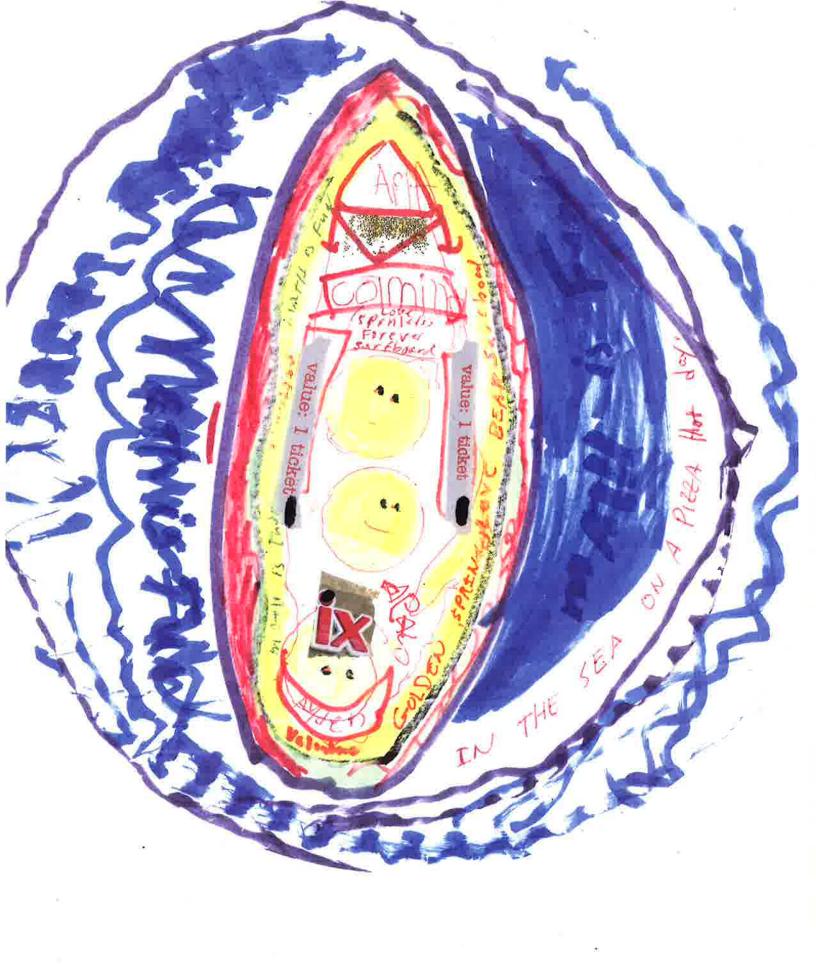
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2x-5) = (8-4) L SQUI Buth Sides

-5- X1-8X-1/6

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SMART BIRD

12 12 = 2

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