

Name _____atfm0301car2810yes

VIDEOS ON DEMAND

website **www.alvarezmathhelp.com**

PROGRAMS: ALVAREZLAB AND INTERACTMATH (CARSON PREALGEBRA 3RD EDITION)

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Simplify using order of operations.

1) $-10\sqrt{100} + |22 \div (-11)| - (22 - 10)$ 1) _____
A) -130 B) -110 C) -101 D) -86

Objective: (2.5) Use Order of Operations (with Radical)
VIDEO 26

2) $\frac{-19 + 5^2 - (-15)}{-6 - 9 + 18}$ 2) _____
A) 4 B) -7 C) -4 D) 7

Objective: (2.5) Use Order of Operations (Quotient)
VIDEO 27

Evaluate.

3) $-|4m + 4n|$; $m = -8$, $n = 3$ 3) _____
A) -15 B) -17 C) -20 D) -24

Objective: (3.1) Evaluate Algebraic Expression
VIDEO 31

Evaluate the expression using the given values.

4) $\frac{x^2}{2z + y}$; $x = 5$, $y = -1$, $z = 3$. 4) _____
A) 5 B) -5 C) 25 D) $\frac{25}{7}$

Objective: (3.1) Evaluate Algebraic Expression (Rational/Radical)
VIDEO 33

Subtract and write the resulting polynomial in descending order of degree.

5) $(9p^2 + 12p + 8) - (3p^2 + 4p - 6)$ 5) _____
A) $6p^2 - 8p - 14$ B) $6p^2 + 8p + 2$ C) $6p^2 + 8p + 14$ D) $6p^4 + 8p^2 + 14$

Objective: (3.3) Subtract Polynomials
VIDEO 41

Find the prime factorization. Write the answer in exponential form.

6) 30 6) _____
A) $2 \cdot 3 \cdot 5$ B) $2^2 \cdot 5$ C) $6 \cdot 5$ D) $3^2 \cdot 2$

Objective: (3.5) Find Prime Factorization
VIDEO 48

Solve and check.

7) $4(y + 2) = 5(y - 2)$ 7) _____
A) $y = 2$ B) $y = -18$ C) $y = 18$ D) $y = -2$

Objective: (4.2) Solve Linear Equation
VIDEO 53

8) $7y - 2(y - 2) = 9y - (5y + 8)$ 8) _____
A) $y = 4$ B) $y = -12$ C) $y = 12$ D) $y = -4$

Objective: (4.2) Solve Linear Equation
VIDEO 55

Multiply and express the product in lowest terms.

9) $\frac{15}{18} \cdot \frac{3}{5}$

9) _____

A) $\frac{1}{5}$

B) $\frac{6}{7}$

C) $\frac{45}{90}$

D) $\frac{1}{2}$

Objective: (5.3) Multiply Fractions (Express in Lowest Terms)

VIDEO 67

10) $-\frac{12x^4y}{10z} \cdot \frac{20z}{20x^2}$

10) _____

A) $-\frac{6x^2y}{5}$

B) $-\frac{3x^2y}{10}$

C) $-\frac{6x^2yz}{5}$

D) $-\frac{6x^2z}{5}$

Objective: (5.3) Multiply Rational Expressions

VIDEO 68

Solve.

11) $-\frac{16}{21}y = -\frac{4}{15}$

11) _____

A) $\frac{28}{5}$

B) $\frac{16}{35}$

C) $\frac{35}{16}$

D) $\frac{7}{20}$

Objective: (5.4) Solve Equation with Fractions

VIDEO 72

Find the LCM.

12) $30h^5k$ and $360h^2k^3$

12) _____

A) $360h^5k^3$

B) $360h^7k^4$

C) $30h^2k$

D) $15h^2k$

Objective: (5.5) Find the LCM (Variables/Exponents)

VIDEO 74

Add or subtract.

13) $\frac{4}{8} + \frac{1}{12} + \frac{4}{15}$

13) _____

A) $\frac{59}{180}$

B) $\frac{17}{20}$

C) $1\frac{7}{10}$

D) $\frac{3}{40}$

Objective: (5.6) Add/Subtract Fractions/Rational Expressions (Different Denominators)

VIDEO 77

Solve.

14) $k + \frac{1}{5} = \frac{1}{2}$

14) _____

A) $\frac{2}{5}$

B) 3

C) $\frac{3}{10}$

D) $\frac{7}{10}$

Objective: (5.6) Solve Equation with Fractions

VIDEO 80

Simplify.

15) $\left(\frac{2}{3}\right)^2 + 5\frac{1}{3} \div 1\frac{1}{5}$

15) _____

A) $4\frac{22}{27}$

B) $5\frac{1}{9}$

C) $4\frac{8}{9}$

D) $5\frac{7}{9}$

Objective: (5.7) Order of Operations (Fractions)

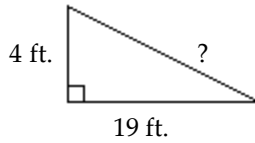
VIDEO 82

Solve.

- 16) $-7.4q + 1.3 = -28.2 - 1.5q$ 16) _____
A) $q = -35$ B) $q = 5$ C) $q = 4.2$ D) $q = 4.0$

Objective: (6.6) Solve Equation Using Add/Sub/Mult/Div Principles
VIDEO 94

- 17) The diagram below shows the side view of a plan for a slanted roof. Find the unknown length in this roof plan. 17) _____



- A) 9.7 ft. B) 188.5 ft. C) 19.4 ft. D) 11.5 ft.

Objective: (6.6) Solve Apps: Solving Eqns/Numbers/Pythagorean Theorem
VIDEO 97

Solve for the missing number.

- 18) $\frac{48}{132} = \frac{12}{x}$ 18) _____
A) $\frac{576}{132}$ B) 1536 C) $\frac{1}{33}$ D) 33

Objective: (7.2) Solve Proportions
VIDEO 98

- 19) $\frac{1}{2} = \frac{n}{4\frac{1}{7}}$ 19) _____
A) $2\frac{1}{14}$ B) $3\frac{1}{2}$ C) $8\frac{1}{7}$ D) $\frac{14}{29}$

Objective: (7.2) Solve Proportions
VIDEO 99

Solve the problem.

- 20) If 4 sandwich rolls cost \$1.08, how much will 24 rolls cost? 20) _____
A) \$7.48 B) \$6.48 C) \$4.32 D) \$6.32

Objective: (7.2) Solve Apps: Proportions
VIDEO 100

Translate to a proportion and solve.

- 21) 51 is 60% of what number? 21) _____
A) 8.5 B) 30.6 C) 85 D) 850

Objective: (8.3) Solve Percent Problem for Whole
VIDEO 104

Translate to a proportion and solve. Round the answer to the nearest tenth of a percent if necessary.

- 22) What percent of 1080 is 54? 22) _____
A) 20% B) 5% C) 21% D) 6%

Objective: (8.3) Solve Percent Problem for Percent
VIDEO 105

Solve the problem.

- 23) The appliance store where the Scott family shops offers a 6% discount for paying cash. The Scott family received a discount of \$41. What was their total bill before the discount? 23) _____
A) \$683 B) \$200 C) \$2 D) \$7

Objective: (8.4) Solve Apps: Solve for Whole Amount in Percent Problem
VIDEO 107

Solve.

24) A camera costs \$670. If the sales tax rate is 4%, how much tax is charged and what is the total price? Round your answers to the nearest cent.

24) _____

A) \$268.00, \$938.00

B) \$20.10, \$690.10

C) \$26.80, \$696.80

D) \$33.50, \$703.50

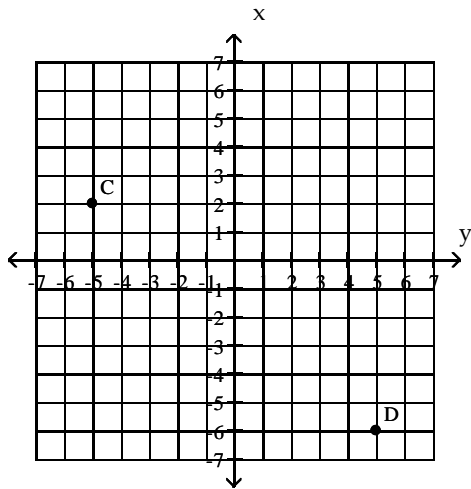
Objective: (8.5) Solve Apps: Solve Given Percent Increase (Sales Tax)

VIDEO 109

Give the coordinates of the points shown on the graph.

25)

25) _____



A) $C = (-5, -6)$, $D = (2, -6)$

B) $C = (2, 6)$, $D = (-6, 5)$

C) $C = (-5, 2)$, $D = (-6, 5)$

D) $C = (-5, 2)$, $D = (5, -6)$

Objective: (9.2) Find Coordinates of Point on Graph

VIDEO 113

Answer Key

Testname: AT4M0301CAR2810

- 1) B
- 2) D
- 3) C
- 4) A
- 5) C
- 6) A
- 7) C
- 8) B
- 9) D
- 10) A
- 11) D
- 12) A
- 13) B
- 14) C
- 15) C
- 16) B
- 17) C
- 18) D
- 19) A
- 20) B
- 21) C
- 22) B
- 23) A
- 24) C
- 25) D