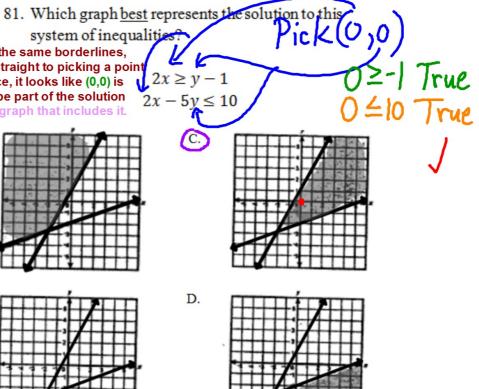
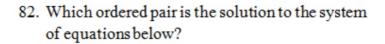


B.

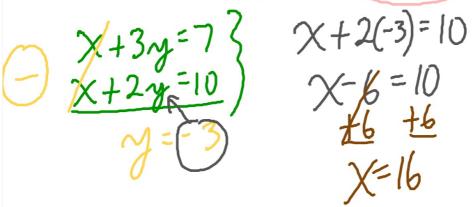




$$x + 3y = 7$$
$$x + 2y = 10$$

A.
$$\left(\frac{7}{2}, \frac{13}{4}\right)$$

B.
$$\left(\frac{7}{2}, \frac{17}{5}\right)$$



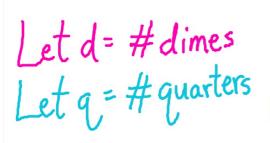
83. Marcy has a total of 100 dimes and quarters. If the total value of the coins is \$14.05, how many quarters does she have?

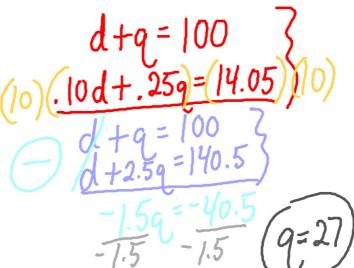


C. 56

B. 40

D. 73





84. Which of the following <u>best</u> describes the graph of this system of equations?

$$y = -2x + 3$$

$$5y = -10x + 15$$

 $y = -2 \times +3$ It's the same line

A Two identical lines

- B. Two parallel lines
- C. Two lines intersection in only one point
- Two lines intersecting in only two points

85.
$$2^{\frac{\cancel{5}\cancel{x}^2}{\cancel{10}\cancel{x}^7}} = \frac{\cancel{1}}{\cancel{2}\cancel{x}^4}$$

A. $2x^4$

86.
$$(4x^2 - 2x + 8) - (x^2 + 3x - 2) =$$

A.
$$3x^2 + x + 6$$

B.
$$3x^2 + x + 10$$

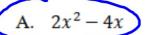
C.
$$3x^2 - 5x + 6$$

D.
$$3x^2 - 5x + 10$$

$$\frac{4x^{2}-3x+10}{4x^{2}-2x+8-x^{2}-3x+2}$$

$$\frac{3x^{2}-5x+10}{5x^{2}-3x+2}$$
CLT

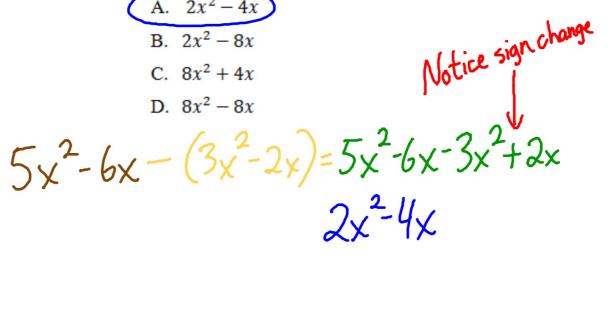
87. The sum of two binomials is $5x^2 - 6x$. If one of the binomials is $3x^2 - 2x$, what is the other binomial?



B.
$$2x^2 - 8x$$

C.
$$8x^2 + 4x$$

D.
$$8x^2 - 8x$$



88. Which of the following expressions is equal to (x+2)+(x-2)(2x+1)?

$$(A.) 2x^2 - 2x$$

B.
$$2x^2 - 4x$$

C.
$$2x^2 + x$$

D.
$$4x^2 + 2x \ne 0.1$$
.

(x+2+(x-2)(2x+1)) $(x+2+2x^2+x-4x-2)=2x^2-2x$

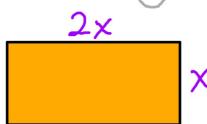
89. A volleyball court is shaped like a rectangle. It has a width of x meters and a length of 2x meters. Which of the expressions gives the area of the court in square meters?



C.
$$3x^2$$

$$(B.)$$
 $2x^2$

D.
$$2x^{3}$$



Area=lur
$$A=(2x)(x)=2x^{2}$$

90. Which is the factored form of

$$3a^2 - 24ab + 48b^2$$
?

A.
$$(3a-b)(a-6b)$$

B.
$$(3a-16)(a-3b)$$

$$(C)$$
 3(a - 4b)(a - 4b)

D.
$$3(a-8b)(a-8b)$$

 $3(a^2-8ab+1bb^2)$ 3(a-4b)(a-4b)

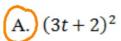
Note: You can always check your answer in a case like this by FOILing and then distributing to see if you end up back where you started.

91. Which is a factor of $x^2 - 11x + 24$?



- A. x+3
- B. $\chi 3$
 - C. x+4
- D. x 4

92. Which of the following shows $9t^2 + 12t + 4$ factored completely?



- C. (9t+4)(t+1)
- D. $9t^2 + 12t + 4$

B. (3t+4)(3t+1) Perfect square trinomial pattern. FOIL to check answer.

- 93. What is the complete factorization of $32 8z^2$?
 - A. -8(2+z)(2-z) 8 (4-
- - B. 8(2+z)(2-z)C. $-8(2+z)^2$

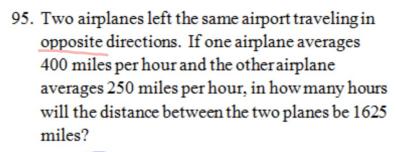
D. $8(2-z)^2$

Note: Once a GCF of 8 is pulled out, it is a difference of two squares pattern.

94. If x^2 is added to x, the sum is 42. Which of the following could be the value of x?

C. 14

D. 42





C. 5

D. 10.8

Let h= #hrs. 400h+250h=1625

96. Lisa will make punch that is 25% fruit juice by adding pure fruit juice to a 2-liter mixture that is 10% pure fruit juice. How many liters of pure fruit juice does she need to add?

0.4 liters

C. 2 liters

B. 0.5 liters

D. 8 liters

Let l= #liters of pure fruit juice added

liters of pure fruit juice added

10% of 2 liters fruit juice added

25% of total after pure juice added 10% of 2 liters fruit juice added +10(2)+11=.25(2+1)100(.2+l)=(50+.25l)/00 20+100l=50+25l 75l=30 l=.4 liters

97. Which relation is a function?

$$X = \{(-1,3), (-2,6), (0,0), (-2,-2)\}$$

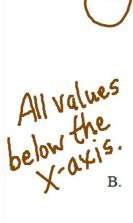
$$B = \{(-2,-2), (0,0), (1,1), (2,2)\}$$

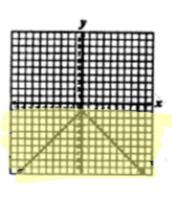
$$X = \{(4,0), (4,1), (4,2), (4,3)\}$$

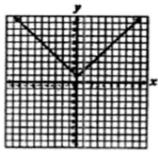
$$Y = \{(7,4), (8,8), (10,8), (10,10)\}$$

Note: For each value of x, there can be one and only one value for y? All of the underlined values of x show situations where there would be a violation of the vertical line test.

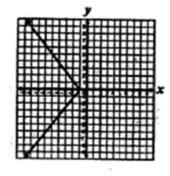
98. For which equation graphed below are <u>all</u> the *y*-values negative?



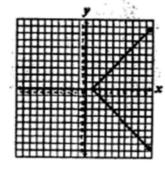




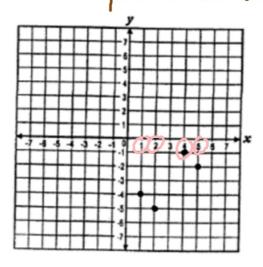






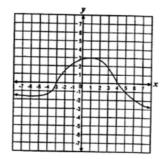


99. What is the domain of the function shown on the graph below? Possible X Values

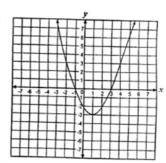


- A. $\{-1, -2, -3, -4\}$
- B. $\{-1, -2, -4, -5\}$
- C. {1,2,3,4}
- D. {1,2,4,5}
- 100. Which of the following graphs represents a relation that is <u>not</u> a function of x?

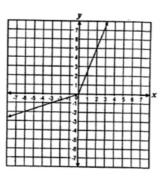
A.



C



B.



(D

