Bellwork

Alg 2

Monday, November 5, 2018

NO calculator can be used on these questions.

- 1. Which of the following ordered pairs (x, y) satisfies both equations $y = x^2 + 3x 4$ and x = y 4?
- A) (0,-4)
- B) (2,6)
- C) (3,14)
 - D) (5,9)

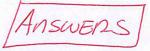
- 2. A line is graphed in the xy plane. If the line has a positive slope and a negative y intercept, which of the following points cannot lie on the line?
- A) (-3, -3)
- B) (-3,3)
- C) (3,-3)
- D) (3,3)

3. In the expression below, a is an integer.

$$12x^2 + ax - 20$$

If 3x + 4 is a factor of the above expression, what is the value of a?

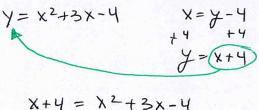
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NO calculator can be used on these questions.

1. Which of the following ordered pairs (x,y) satisfies both equations $y = x^2 + 3x - 4$ and x = y - 4?

A)
$$(0,-4)$$



$$x+4 = x^2 + 3x - 4$$

-x -4 -x -4

$$0 = \chi^2 + 2\chi - 8 \longrightarrow$$

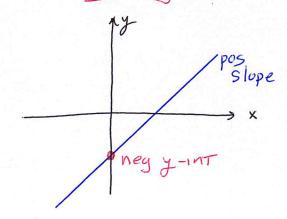
$$0 = \chi^{2} + 2\chi - 8 \rightarrow + 4 - 2 \rightarrow 0 = (\chi + 4)(\chi - 2)$$

$$\chi = -4, 2$$

2. A line is graphed in the xy - plane. If the line has a positive slope and a negative y - intercept, which of the following points cannot lie on the line?

A)
$$(-3, -3)$$

C)
$$(3,-3)$$



Line will Not pass through the second quadrant.

B is the only possible choice

3. In the expression below, a is an integer.

$$12x^2 + ax - 20$$

If 3x + 4 is a factor of the above expression, what is the value of α ?

a-1=0

$$\frac{4x - 5}{3x + 4} \int 12x^{2} + ax - 20$$

$$- 12x^{2} + 16x$$

$$\frac{(a - 16)x - 20}{-15x - 20}$$

$$\frac{(a - 16 - 15)x + 0}{a - 16 + 15} = 0$$

$$a = 1$$