Bellwork

Alg 2 Friday, October 19, 2018

NO calculator is allowed on these three questions.

- 1. For the quadratic function f, the table below gives some values of x and their corresponding values of
- f(x). Which of the following equations could define f?

1	x	f(x)
I	2	7
	3	5
	4	7

A)
$$f(x) = (x-3)^2 + 5$$

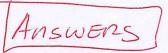
B)
$$f(x) = (x-3)^2 + 9$$

A)
$$f(x) = (x-3)^2 + 5$$
 B) $f(x) = (x-3)^2 + 9$ C) $f(x) = 2(x-2)^2 + 7$ D) $f(x) = 2(x-3)^2 + 5$

D)
$$f(x) = 2(x-3)^2 + 5$$

- 2. Given: $3(x-5)^2 + 11 = 59$ What is the smallest value of *x* that satisfies this equation?
- A) 9 B) 7 C) 5 D) 1

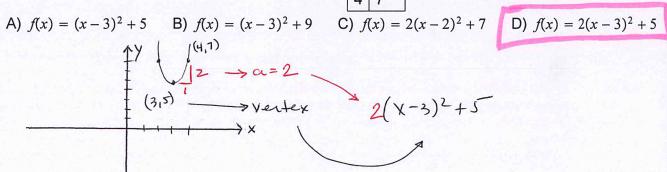
3. If one solution to the system of equations below is (x,y), what is one possible value of x? x + y = 17xy = 72



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$$3(x-5)^{2} + 11 = 59$$

$$3(x-5)^{2} = 48$$

$$3(x-5)^{2} = 10$$

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$$x = 44 + 5 = 9$$

$$x = -4 + 5 = 1$$

3. If one solution to the system of equations below is (x,y), what is one possible value of x?

$$x + y = 17$$

$$xy = 72$$

> Y=17-x solve 1st equation for y

* X(17-X) = 72

use substitution to solve the system

$$17x - x^2 = 72$$

$$-9 \xrightarrow{+72} (x-9)(x-8) = 0$$