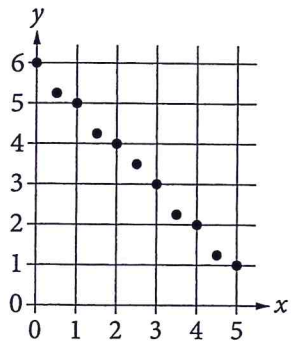
Bellwork Alg 2 Friday, February 7, 2020

You can use a calculator on these PSAT questions.

4 4

9



Which of the following could be an equation for a line of best fit for the data in the scatterplot?

A) $y = -x + 6$

B) $y = -x - 6$

C) $y = 6x + 1$

D) $y = 6x - 1$

10

At a certain time and day, the Washington Monument in Washington, DC, casts a shadow that is 300 feet long. At the same time, a nearby cherry tree casts a shadow that is 16 feet long. Given that the Washington Monument is approximately 555 feet tall, which of the following is closest to the height, in feet, of the cherry tree?

A) 10

B) 20

C) 30

D) 35

11

$$2x + 7y = 9$$
$$8x + 28y = a$$

In the given system of equations, a is a constant. If the system has infinitely many solutions, what is the value of a ?

A) 4

B) 9

C) 36

D) 54

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ANSWERS

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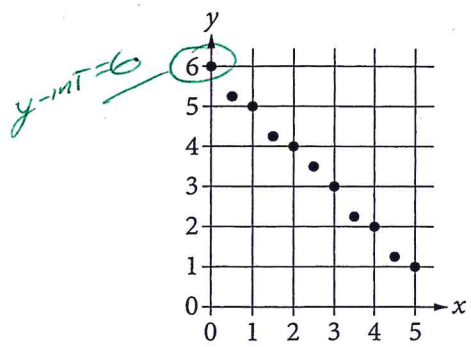

y-INT = 6

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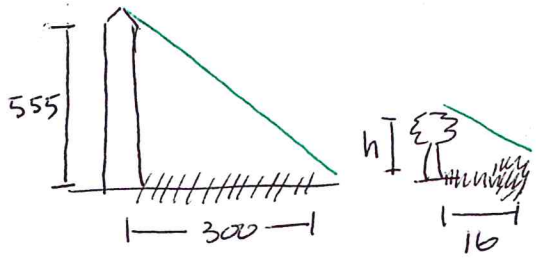

THESE ARE SIMILAR Δs

$\frac{555}{h} = \frac{300}{16}$

$h = 29.6$

11

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$$8x + 28y = a$$

In the given system of equations, a is a constant. If the system has infinitely many solutions, what is the value of a ?

A) 4

B) 9

C) 36

D) 54

↳ all variables must cancel when you solve and you must be left w/ a true statement (two = #s)

or you could say that you must be dealing with the same line

$4(2x + 7y = 9)$

$8x + 28y = a$

$8x + 28y = 36$

$-\ 8x + 28y = a$

$0 + 0 = 36 - a$

a must be 36