Bellwork

Alg 2B Thursday, September 7, 2017

- 1. A line in the xy-plane passes through the origin and has a slope of  $\frac{1}{7}$ . Which of the following points lies on the line?
- A) (0,7)
- B) (1,7)
- C) (7,7)
- D) (14,2) E) None of these

Simplify each. Write your answers so that no exponents are zero or negative.

$$2. \quad \frac{3^{-2}w^5z^{-6}}{6v^0w^{-4}x^7}$$

3. 
$$\left(\frac{5c^{-4}d^5}{15c^{-2}d^{-7}}\right)^{-2}$$

4. 
$$(3j^{-2}k^4)^3(5j^3k^{-7})^2$$

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D) (14,2)

E) None of these

EQ OF LINE! Y= 7X

The only point that makes this equation true is (14,2)

Simplify each. Write your answers so that no exponents are zero or negative.

$$2. \ \frac{3^{-2}w^5z^{-6}}{6v^0w^{-4}x^7}$$

$$= \frac{\omega^5 \omega^4}{3^2 \cdot 6 \times^7 z^6} = \frac{\omega^9}{54 \times^7 z^6}$$

There are many ways to arrive at the correct answer. my work is' just one of them

$$3. \left(\frac{5c^{-4}d^{5}}{15c^{-2}d^{-7}}\right)^{-2} = \left(\frac{d^{12}}{3c^{2}}\right)^{-2} = \left(\frac{3c^{2}}{d^{12}}\right)^{2} = \left(\frac{3c^{2}}{d^{12}}\right)^{2} = \left(\frac{3c^{2}}{d^{2}}\right)^{2}$$

4.  $(3j^{-2}k^4)^3(5j^3k^{-7})^2$ 

$$(27)^{-6}||\chi||^{2})(25)^{6}||\chi^{-14}||^{2} = (675)^{6}||\chi^{-12}||^{2}$$

$$= (675)^{6}||\chi^{-12}||^{2}$$