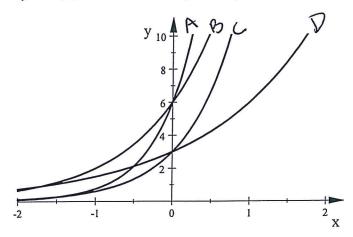
Match each exponential equation to its graph.

1. 
$$y = 3(5)^x$$

2. 
$$y = 6(8)^x$$

3. 
$$y = 3(2)^x$$

4. 
$$y = 6(3)^x$$



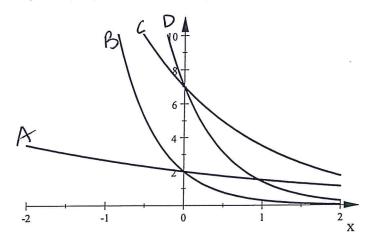
Match each exponential equation to its graph.

5. 
$$y = 7(0.5)^x$$

6. 
$$y = 2(0.15)^x$$

7. 
$$y = 2(0.75)^x$$

8. 
$$y = 7(0.2)^x$$



9. The value of a house last year was \$175,400. This year the value of the house decreased by 6% compared to last year. What is the value of the house this year?

10. The price on a car this year is \$25,760. The price will increase 4.5% next year. Find the price of the car next year.

11. Simplify. Give answer without exponents that are zero or negative. Reduce any fractions.

$$\left(\frac{6^{-1}m^4n^{-6}}{k^{-4}m^{-2}n^{-9}p^5}\right)^{-2}(81k^5m^{-7}n^3p^4)$$

## Algebra 1 Bellwork Tuesday, April 12, 2016

AnswERS

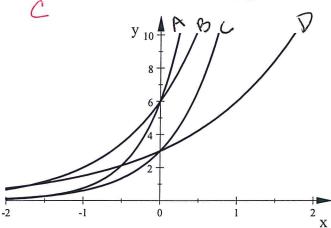
Match each exponential equation to its graph.



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4. 
$$y = 6(3)^x$$



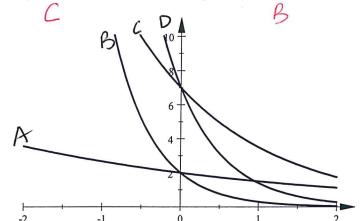
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9. The value of a house last year was \$175,400. This year the value of the house decreased by 6% compared to last year. What is the value of the house this year?  $100 - 6 = 94 \cdot /$ 

10. The price on a car this year is \$25,760. The price will increase 4.5% next year. Find the price of the car next year.

$$(25,760)(1,045) = (26,919.20)$$

11. Simplify. Give answer without exponents that are zero or negative. Reduce any fractions.

$$\frac{\left(\frac{6^{-1}m^{4}n^{-6}}{k^{7}m^{-2}n^{-9}p^{5}}\right)^{-2}(81k^{5}m^{-7}n^{3}p^{4})}{\left(\frac{m^{6}n^{3}k^{4}}{6p^{5}}\right)^{-2}} = \frac{36p^{10}}{m^{12}n^{6}k^{8}} \left(\frac{81k^{5}m^{7}n^{3}p^{4}}{m^{12}n^{6}k^{8}}\right) \left(\frac{81k^{5}m^{7}n^{3}p^{4}}{m^{12}n^{6}k^{8}}\right) \left(\frac{81k^{5}m^{7}n^{3}p^{4}}{m^{12}n^{6}k^{8}}\right) \left(\frac{81k^{5}m^{7}n^{3}p^{4}}{m^{12}n^{3}k^{4}}\right) = \frac{2916p^{14}}{k^{3}m^{19}n^{3}}$$