

Algebra 1 Bellwork Thursday, March 12, 2015

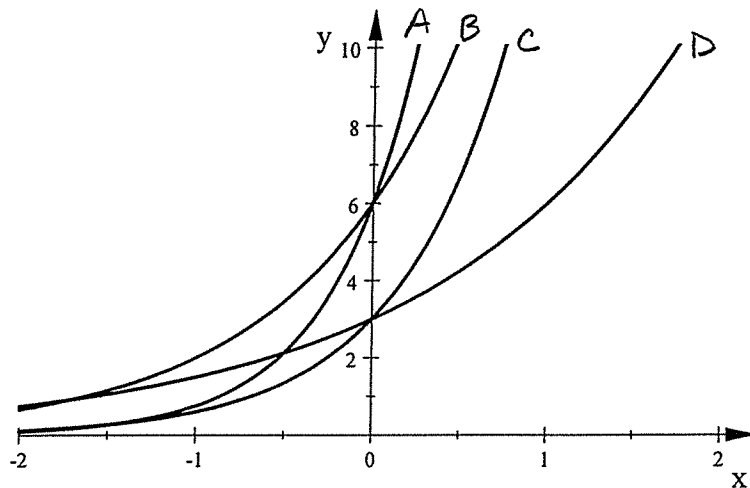
Match each exponential equation to its graph.

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

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

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

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



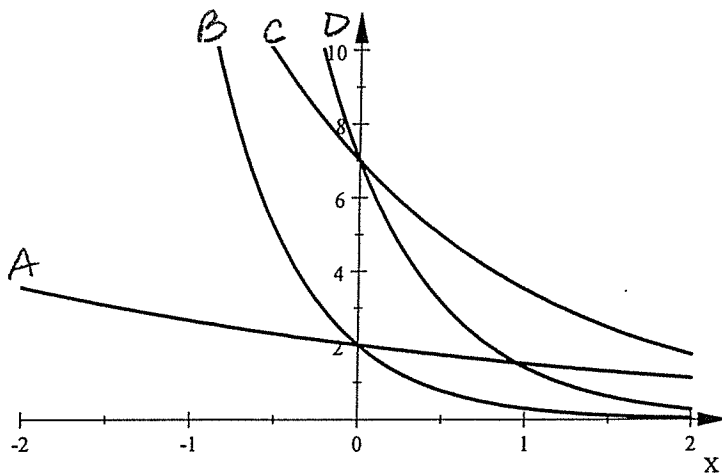
Match each exponential equation to its graph.

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. Evaluate for $P = -9$ $Q = -6$ $R = 12$ Give answer as a fraction in reduced form.
 $3P^{-2}Q^2R^{-1}$

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

$$\left(\frac{4^{-2}m^4n^{-6}p}{2^{-3}k^{-4}m^{-2}n^{-9}p^5} \right)^{-2} (8k^5m^{-7}n^3p^4)$$

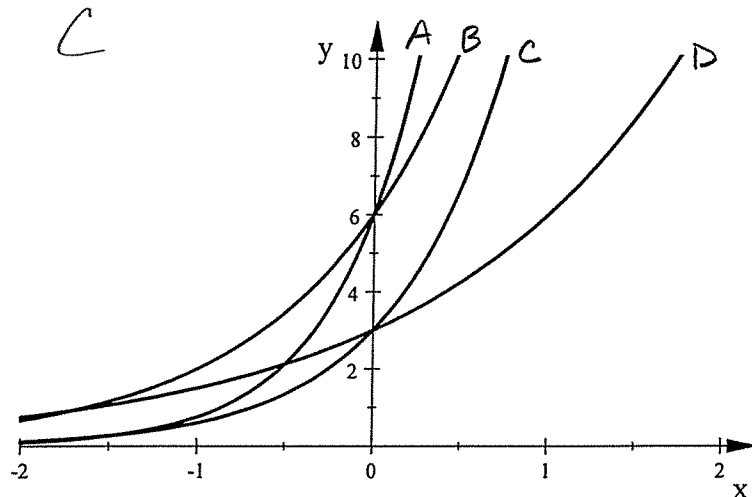
Match each exponential equation to its graph.

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

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

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

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



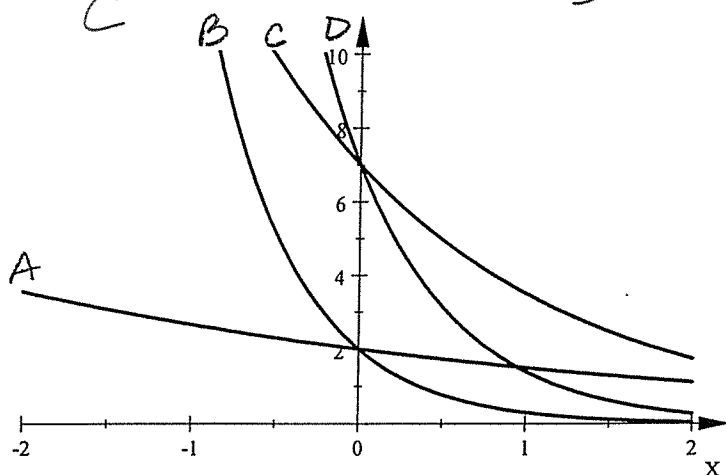
Match each exponential equation to its graph.

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

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

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

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



9. Evaluate for $P = -9$ $Q = -6$ $R = 12$ Give answer as a fraction in reduced form.

$3P^{-2}Q^2R^{-1}$

$$\frac{3Q^2}{P^2R} = \frac{3(-6)^2}{(-9)^2(12)} = \frac{108}{972} = \boxed{\frac{1}{9}}$$

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

$\left(\frac{4^{-2}m^4n^{-6}p}{2^{-3}k^{-4}m^{-2}n^{-9}p^5}\right)^{-2} (8k^5m^{-7}n^3p^4)$

$$\frac{4^4 m^{-8} n^{12} p^{-2}}{2^6 k^8 m^4 n^{18} p^{-10}}$$

$$\left(\frac{256 p^8}{64 k^8 m^{12} n^6}\right) (8k^5 m^{-7} n^3 p^4) = \boxed{\frac{32 p^{12}}{k^3 m^{19} n^3}}$$