

Name: _____

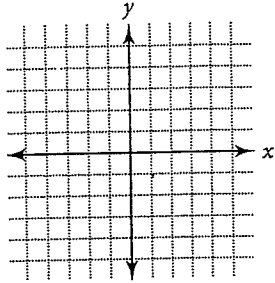
Date: _____

Practice
QUIZ 7.1 & 7.2

graph the function by plotting 3 points.

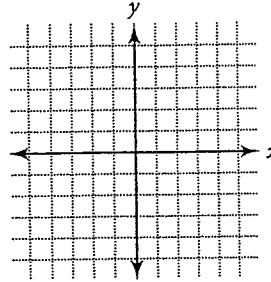
1. $y = \left(\frac{3}{2}\right)^x$

x	y
-1	
0	
1	



2. $y = 3\left(\frac{1}{2}\right)^x$

x	y
-1	
0	
1	



Without graphing, determine whether the function represents exponential growth or decay, then find the y-intercept.

3. $y = 2(1.05)^x$

4. $y = 4\left(\frac{3}{5}\right)^x$

5. $y = 3(0.45)^x$

Find the growth or decay factor.

6. +3.2%

7. -67.4%

8. +52%

9. You invest \$5000 in an account that earns interest at an effective rate of 8.4% per year. In how many years will you have over \$6800 in the account? **Use a calculator and table to solve** _____

10. A manufacturer bought a new rolling press for \$48,000. It has depreciated in value at an annual rate of 15%. What is its value 5 years after purchase? Round to the nearest hundred dollars. _____

Identify each function as linear, quadratic, or exponential.

11. $f(x) = 0.7x - 12$

12. $f(x) = 25 - 1.8x^2$

13. $f(x) = 7(0.5)^x$

Find the final value of each investment.

14. \$1000 at 4.5% compounded annually for 5 years _____

15. \$800 at 6.2% compounded monthly for 10 years _____

16. \$2300 at 8% compounded daily for 7 years _____

17. You place \$900 in an investment account that earns 6% interest compounded continuously.
Find the balance after 5 years.