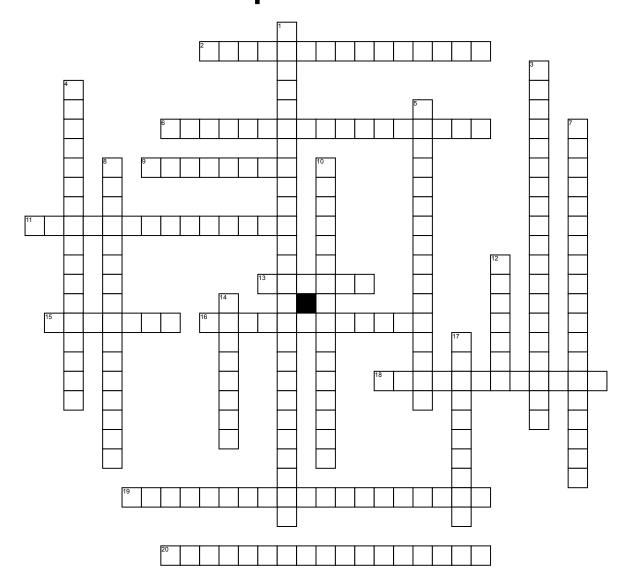
Name:	Date:	Period:	

Chapter 8 & 9



Across

- **2.** For the function f, any number x such that f(x)=0
- **6.** an exponential function of the form $f(x)=ab^{x}$ in which b>1
- **9.** The shape of the graph of a quadratic function
- 11. a line that divides a plane figure or a graph into two congruent reflected halves
- **13.** The highest or lowest point on the parabola
- **15.** The y-value of the highest point on the graph of the function
- **16.** Å ratio that compares the amount of change in a dependent variable to the amount of change in an independent variable
- **18.** b^2-4ac

- **19.** A process used to form a perfect-square trinomial
- **20.** A function that can be written in the form f(x)=a or x^2+bx+c

Down

- **1.** A system in which at least one of the equations is not linear
- **3.** The change in the value of a quantity divided by the elapsed time
- **4.** An equation that can be written in the form ax^2+ bx+ c, where a, b, and c are real numbers and a cannot = 0
- **5.** Interest earned or paid on both the principle and previousy earned interest
- 7. A function of the form $f(x)=ab^x$, where a cannot = 0, b>0, and b cannot
- **8.** An exponential function of the form $f(x)=ab^{x}$ in which 0<b<1

- **10.** The formula which gives solutions, or roots, of $x^2 + bx + c$ where a cannot = $0 (-b + /- \sqrt{b^2 4ac})$
- **12.** The y-value of the lowest point on the graph of the function
- **14.** the time it takes for one-half of the substance to decay into another substance
- **17.** quadratic function is given by. f(x) = a(x h)2 + k, where (h, k) is the vertex of the parabola