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## Chapter 6 Extra Credit



## Across

6. an equation that can be written in the form $\mathrm{ax}=\mathrm{b}$ where a and $b$ are constants and a does not equal 0
7. a transformation that reflects, or 'flips', a graph of figure across a line, called the line of reflection
8. a change in the position, size, or shape of a figure or graph
9. a transformation that rotates or turns a figure about a point called the center of rotation
10. the difference in the $y$-values of two points on a line
11. a measure of the steepness of a line
12. a ratio that compares the amount of change in a dependent variable to the amount of change in an independent variable
13. a function that can be written in the form $y=m x+b$, where $x$ is the independent variable and $m$ and $b$ are real numbers
14. a linear relationship between two variables, $x$ and $y$, that can be written in the form $y=k x$ where $k$ is a nonzero number

## Down

1. the $y$ coordinate of the point where a graph intersects the $y$-axis 2. lines in the same plane that do not intersect
2. the constant k in direct and inverse variation equations
3. a set of functions whose graphs have basic characteristics in common
4. lines that intersect at 90 degree angles
5. the $x$ coordinate of the point where a graph intersects the $x$-axis 9. a transformation that rotates or turns a figure about a point called the center of rotation 11. the difference in the $x$-values of two points on a line
6. the simplest function with the defining characteristics of the family
