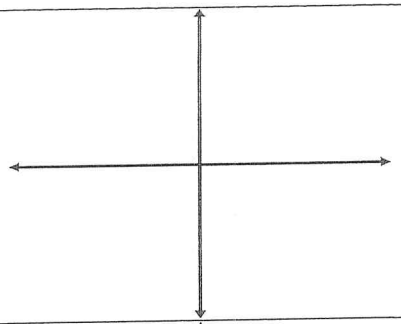
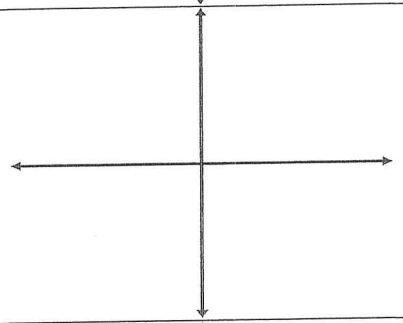
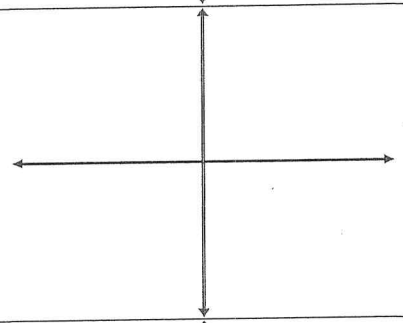
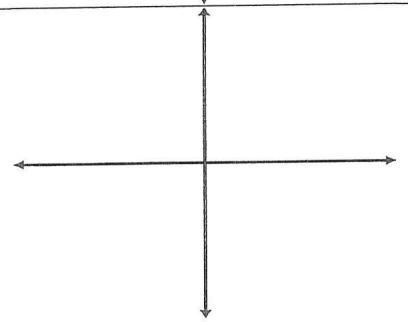
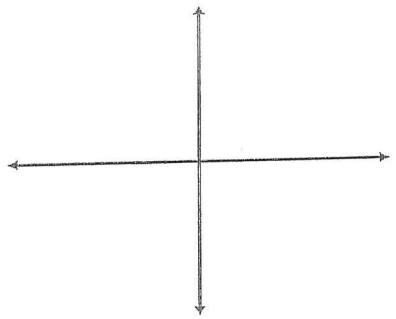
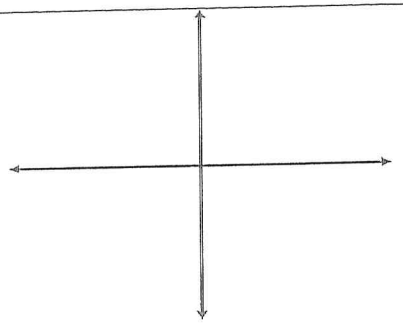
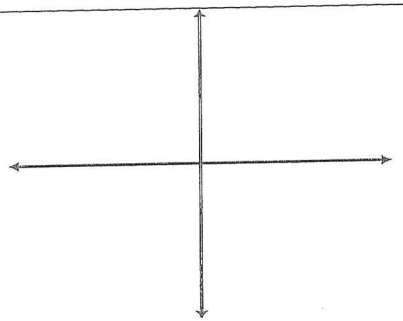
Families of Functions

Name of Family	Example Equation	Graph	Characteristic of Equation / Graph
Polynomial (Linear)	$y = 4x - 3$		
Polynomial (Quadratic)	$y = x^2 + 2x$		
Polynomial (Cubic)	$y = x^3 - 5x$		
Rational	$y = \frac{1}{x}$		

Name of Family	Example Equation	Graph	Characteristic of Equation / Graph
Absolute Value	$y = 5\|x\|$		
Radical (Square Root)	$y = 4\sqrt{x}$		
Exponential	$y = 3^x$