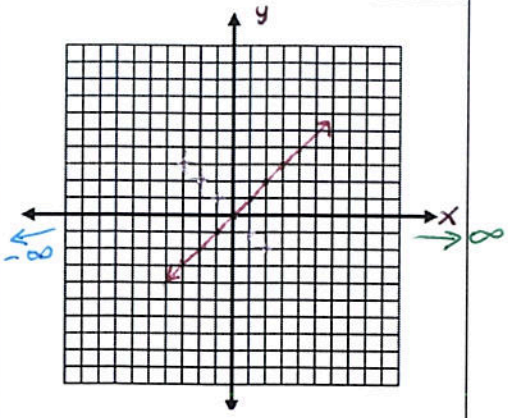
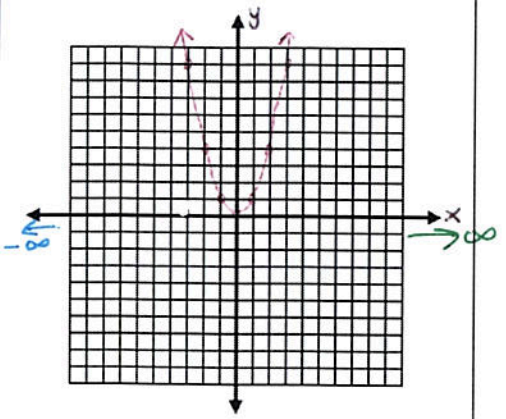
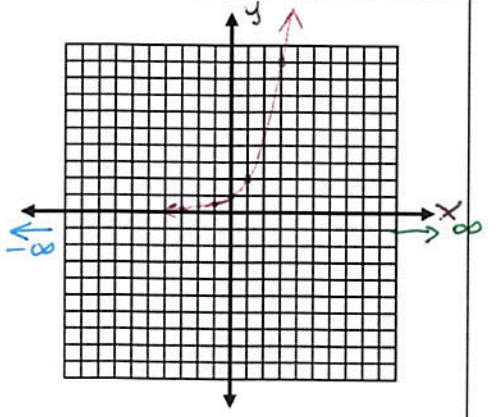
Equation/Function	Table of Values	Intercept & End Behavior	Graph
Linear $f(x) = x$	x | f(x) -3 | $f(-3) = -3$ -2 | $f(-2) = -2$ -1 | $f(-1) = -1$ 0 | $f(0) = 0$ 1 | $f(1) = 1$ 2 | $f(2) = 2$ 3 | $f(3) = 3$ 4 | $f(4) = 4$	*y-intercept:* @ 0 *End-Behavior:* As $x \to -\infty$, $f(x) \to -\infty$ As $x \to \infty$, $f(x) \to \infty$	
Quadratic $f(x) = x^2$	x | f(x) -3 | $f(-3) = (-3)^2 = 9$ -2 | $f(-2) = (-2)^2 = 4$ -1 | $f(-1) = (-1)^2 = 1$ 0 | $f(0) = (0)^2 = 0$ 1 | $f(1) = (1)^2 = 1$ 2 | $f(2) = (2)^2 = 4$ 3 | $f(3) = (3)^2 = 9$ 4 | $f(4) = (4)^2 = 16$	*y-intercept:* @ 0 *End-Behavior:* As $x \to -\infty$, $f(x) \to \infty$ As $x \to \infty$, $f(x) \to \infty$	
Exponential $f(x) = 2^x$	x | f(x) -3 | $f(-3) = 2^{-3} = \frac{1}{8}$ -2 | $f(-2) = 2^{-2} = \frac{1}{4}$ -1 | $f(-1) = 2^{-1} = \frac{1}{2}$ 0 | $f(0) = 2^0 = 1$ 1 | $f(1) = 2^1 = 2$ 2 | $f(2) = 2^2 = 4$ 3 | $f(3) = 3^2 = 9$ 4 | $f(4) = 4^2 = 16$	*y-intercept:* @ 1 *End-Behavior:* As $x \to -\infty$, $f(x) \to 0$ As $x \to \infty$, $f(x) \to \infty$