General Forms of Some Special Functions

Linear: $y = mx + b$

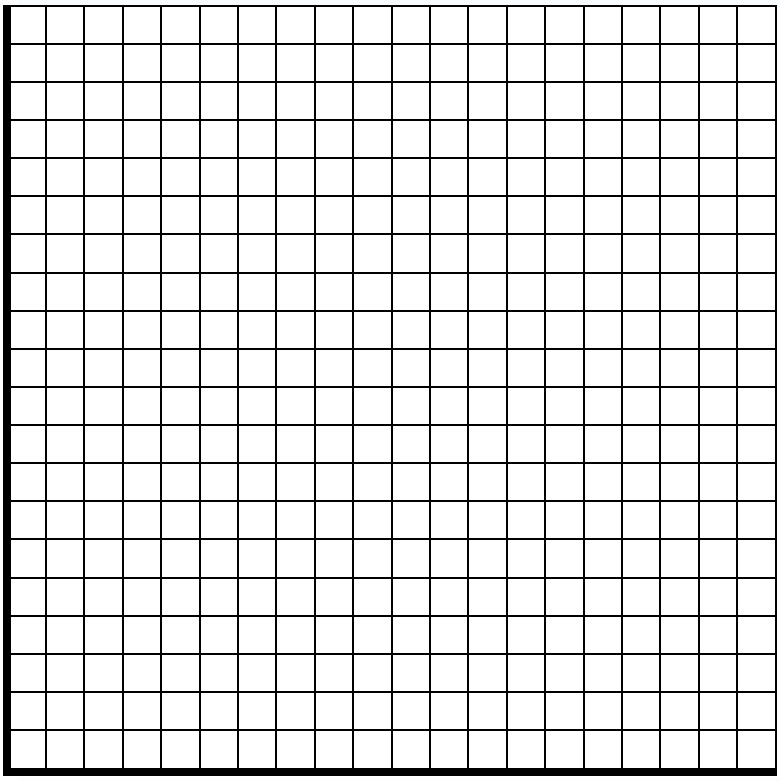
Exponential: $y = Ab^x$; $y = Ae^{rx}$

Modified Reciprocal: $y = \frac{a}{x-b} + c$

Power: $y = ax^b$

1. Sketch graphs for each of the following *power functions*.

a. $y = x^2$ b. $y = 3x^2$ c. $y = x^{0.5}$ d. $y = 3x^{0.5}$ e. $y = x$



2. Sketch graphs of the following *power functions*.

a. $y = 4x^{1.5}$ b. $y = 4x^{0.67}$ c. $y = 0.1x^{3}$ d. $y = 2x^{0.33}$