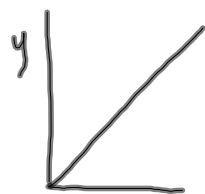


Graphical Analysis of Data



$$y \propto x$$

$$y = kx$$

$$(y = mx + b)$$

LINEAR

Plot of y vs x is linear
 → slope is k
 → y-int is zero



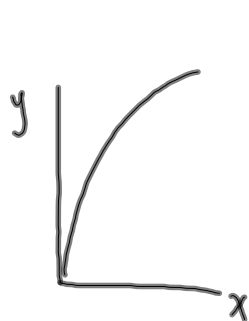
$$y \propto x^n$$

$$y = kx^n$$

$$(y = mx + b)$$

POWER CURVE

Plot of y vs x^n will be linear
 → slope of k
 → y-int of zero



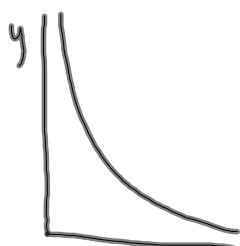
$$y \propto \sqrt[n]{x}$$

$$y = k\sqrt[n]{x}$$

$$(y = mx + b)$$

ROOT CURVE

Plot of y vs $\sqrt[n]{x}$ will be linear
 → slope of k
 → y-int of zero



$$y \propto \frac{1}{x^n}$$

$$y = k\frac{1}{x^n}$$

$$(y = mx + b)$$

INVERSE CURVE

Plot of y vs $\frac{1}{x^n}$ will be linear
 → slope of k
 → y-int of zero