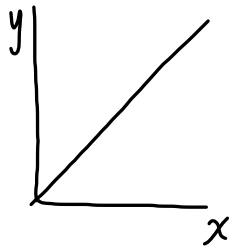


Graphical Analysis of Curved Data

Linear Graph (b=0)



$y \propto x$ (proportionality)
 $y = kx + 0$ (general equation)
 $(y = mx + b)$

A graph of y vs x will be linear with a slope of k and a y -intercept of zero.

Power Curve



$y \propto x^n$
 $y = kx^n$ ← a linear equation "in disguise"
 $(y = mx + b)$

A graph of y vs x^n will be linear with a slope of k and a y -intercept of zero.

Root Curve



$y \propto \sqrt[n]{x}$
 $y = k\sqrt[n]{x}$
 $(y = mx + b)$

A graph of y vs $\sqrt[n]{x}$ will be linear with a slope of k and a y -intercept of zero.

Inverse Curve



$y \propto \frac{1}{x^n}$
 $y = k\left(\frac{1}{x^n}\right)$
 $(y = mx + b)$

A graph of y vs $\frac{1}{x^n}$ will be linear with a slope of k and a y -intercept of zero.