

$$I = P_x X + P_y Y$$

$$Y = \frac{I}{P_y} - \frac{P_x}{P_y} X$$

$\underbrace{\frac{I}{P_y}}$
intercept

$\underbrace{\frac{P_x}{P_y}}$ price ratio
(slope)

For $\frac{P_1}{P_2} < MRS$

$$\Rightarrow X_1 = \frac{m}{P_1}$$

Engel curve

$$m = P_1 X_1$$

↑ slope

