Definition
Slope: ratio of the vertical change (change in $y$-coordinates) to the horizontal change (change in $x$-coordinates)
Formulas

Finding Slope

A Graph:
REMEMBER:
Rise: Run:

$$
\begin{array}{ll}
U P=\oplus & \text { RIGHT }=\oplus \\
D O W N=\Theta & L E F T=\Theta
\end{array}
$$

Two Points:

$$
\begin{array}{cc}
\text { Label }\left(x_{1}, y_{1}\right)\left(x_{2}, y_{2}\right) & \quad \text { Plug into formula } \\
(3,-5) & (-7,2)
\end{array} \sim m=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}=\frac{2-(-5)}{-7-3}=\frac{2+5}{-10}=-\frac{7}{10}
$$

Types of Slope


Positive


Pick any 2 points


