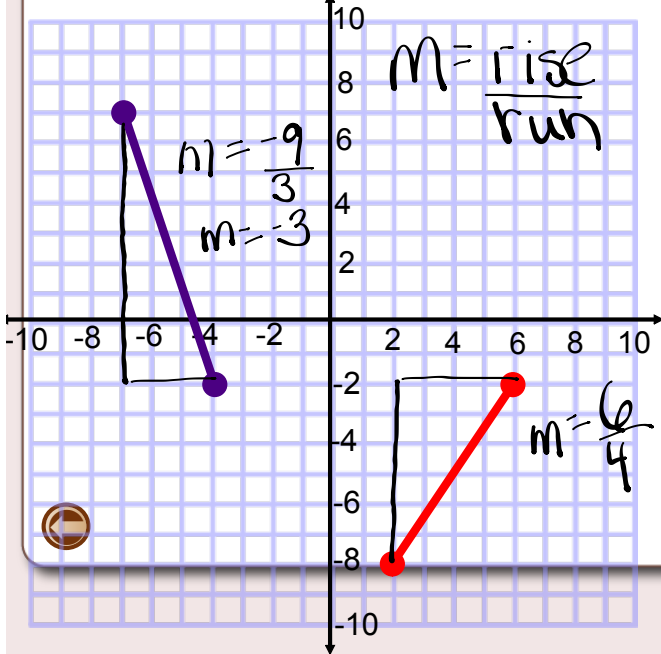


Warm Up



1) Determine the slope of each line

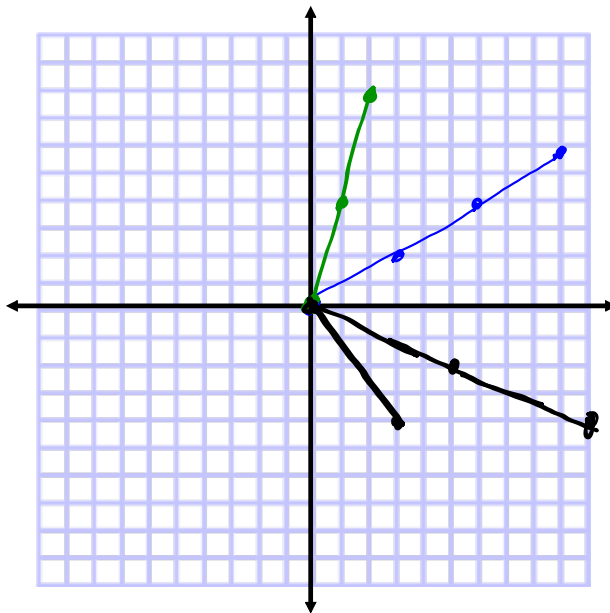


(695, 453) (-976, 403)

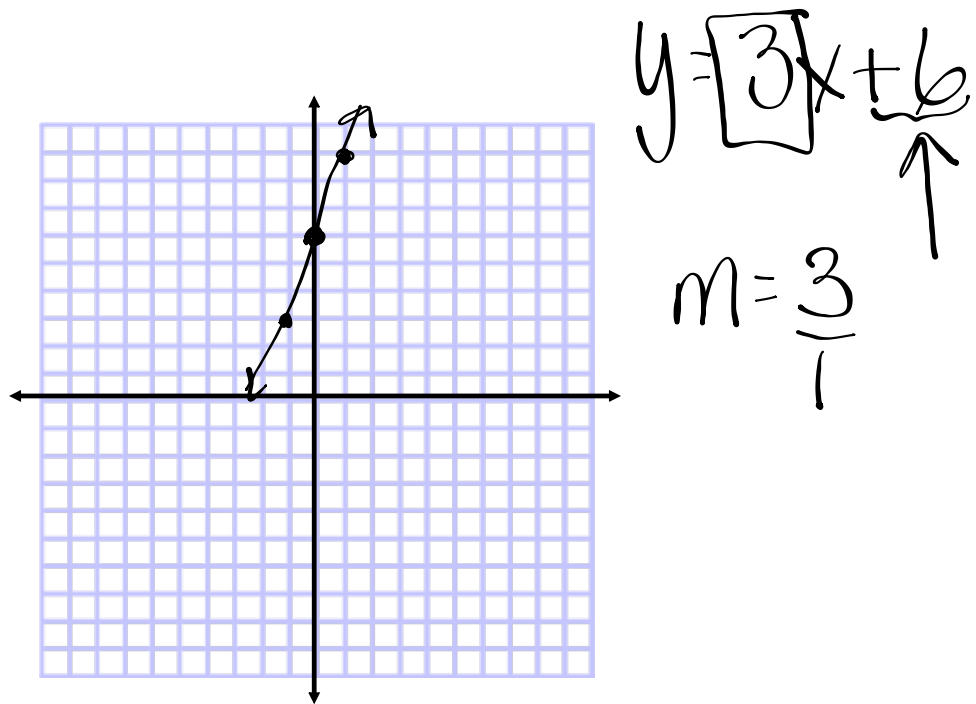
2) What is the slope of a line with points (-3, 4) and (11, -1)?

$$\begin{aligned}
 m &= \frac{y_2 - y_1}{x_2 - x_1} \\
 &= \frac{-1 - 4}{11 - (-3)} \\
 &= \frac{-5}{14}
 \end{aligned}$$

Homework???



$$\begin{aligned}
 &\frac{2}{3} \quad \frac{-4}{-1} = \frac{4}{1} \\
 &-\frac{2}{5} = \frac{2}{-5} \quad -\frac{4}{3}
 \end{aligned}$$



Now....

- you know in $y = mx + b$ that m is the slope and b is the yint

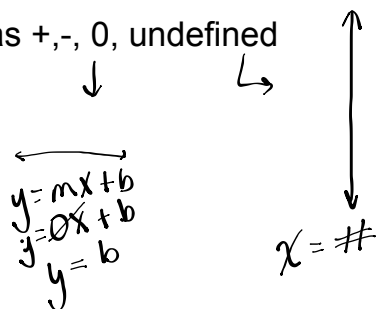
- you can find a slope from a graph $m = \frac{\text{rise}}{\text{run}}$

- you can find a slope from two points $m = \frac{y_2 - y_1}{x_2 - x_1}$

- you can find an equation of a line from a graph when you know the yint and slope $y = mx + b$

- you can graph a line given $y = mx + b$ or both intercepts

- classify slope as +, -, 0, undefined



Attachments

Parallel.doc

Perpendicular and Parallel lines.docx