

6.2

February 18, 2016

Skills 6.1

$$\begin{cases} y = -\frac{3}{5}x + 10 \\ y = -\frac{3}{5}x - 13 \end{cases}$$

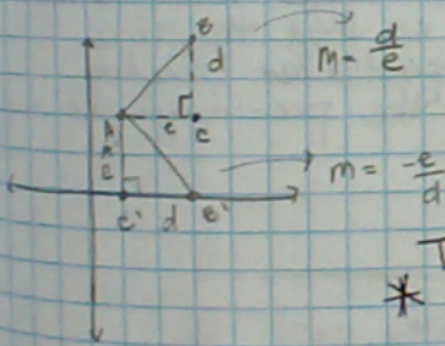
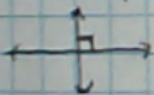
$$y = -\frac{3}{5}x - 13$$

Solve the following system.
Justify your answer.

$$\begin{array}{r} -\frac{3}{5}x + 10 = -\frac{3}{5}x - 13 \\ +\frac{3}{5}x \quad \quad \quad +\frac{3}{5}x \\ \hline 10 = -13 \end{array}$$

No solution
Same slope
parallel

* Horizontal & Vertical Lines
are perpendicular



* The slope of perpendicular lines
are opposite reciprocals

Example: $y = \frac{2}{3}x + 4$

\perp line $\rightarrow y = \frac{3}{2}x + 4$