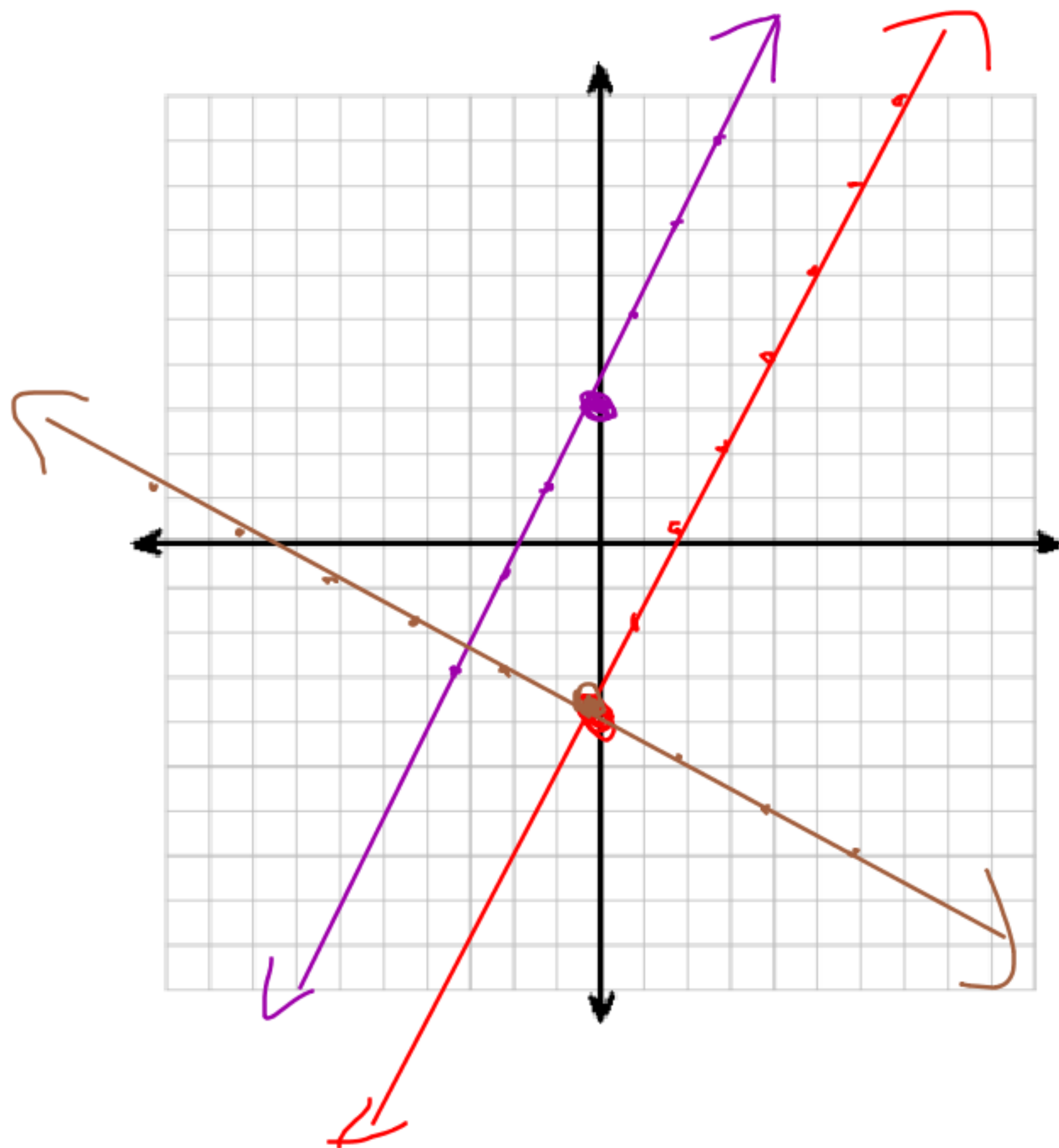


17.



$$y = 2x - 4$$

$$m_{//} = 2$$

$$y = 2x + 13$$

$$m_{\perp} = -\frac{1}{2}$$

$$18) \quad y = -x - 2$$

$$m = -1$$

$$m_{\parallel} = -1$$

$$m_{\perp} = +1$$

$$20) \quad y = -\frac{2}{7}x$$

$$m = -\frac{2}{7}$$

$$m_{\parallel} = -\frac{2}{7}$$

$$m_{\perp} = \frac{7}{2}$$

$$23) \quad 2^{2x}x - y = 8^{-2x}$$

$$y = mx + b$$

$$\frac{-y}{-1} = \frac{-2x}{-1} + \frac{8}{-1}$$

$$y = 2x - 8$$

$$m = 2$$

$$m_{\perp} = 2$$

$$m_{\perp} = -\frac{1}{2}$$

26 - hold

$$27) \quad x - y + 1 = 0$$

and $4x + 4y - 1 = 0$

30 $x + 1 = y$

$$m = 1$$

$$m // = 1$$

$$m_1 = -1$$

$$\therefore m_1 \perp$$

$$\frac{4y}{4} = \frac{-4x - 1}{4}$$

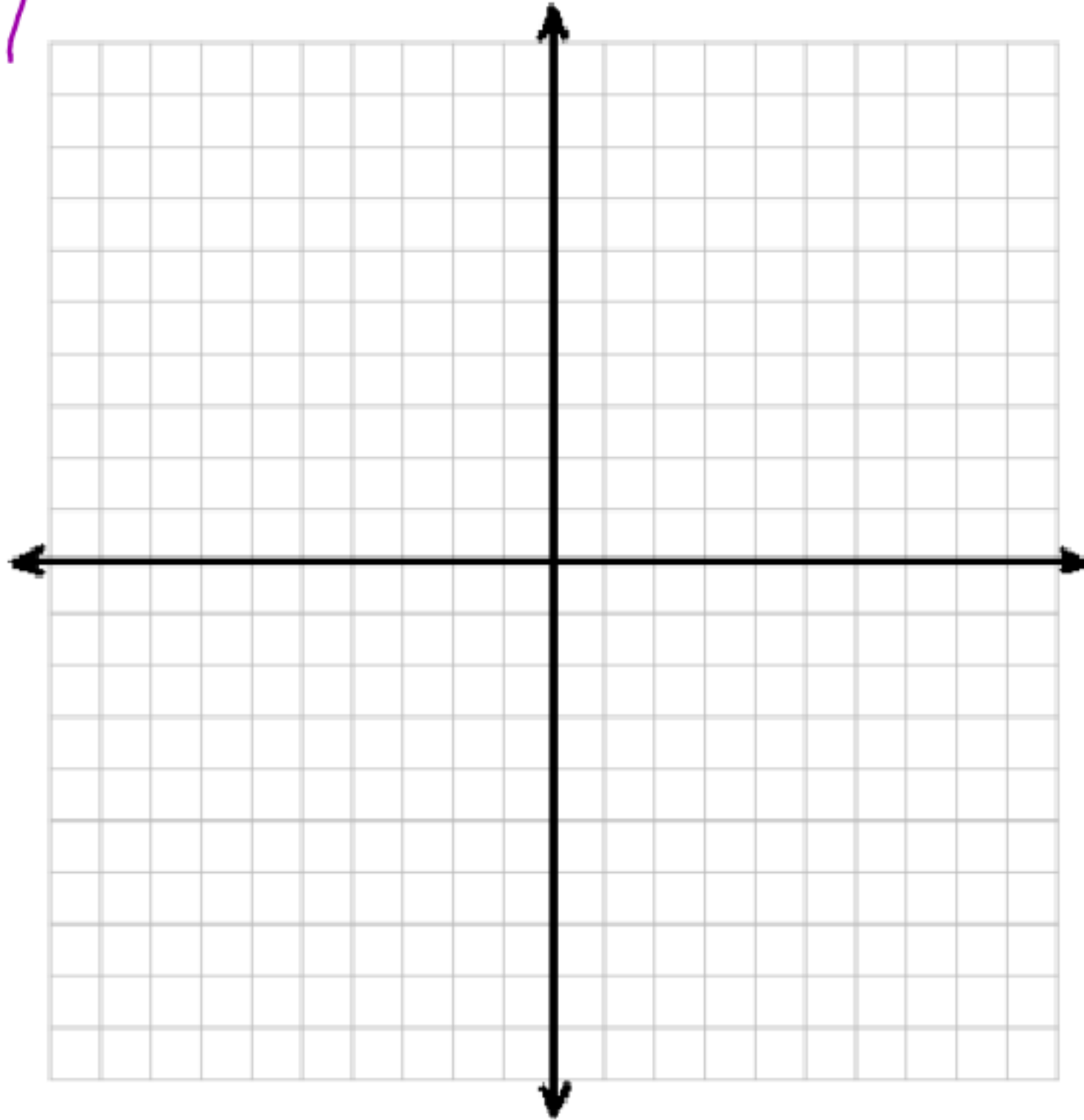
$$y = -x - \frac{1}{4}$$

$$m = -1$$

$$m_2$$

June 7th
p. 437

Parallel and Perpendicular



43. Parallel ($//$)? Perpendicular $\perp$?
1. $m_1 = \frac{2}{3}$ $m_2 = \frac{3}{2}$ $\leftarrow$ (Neither)?

3. $m_1 = -\frac{3}{1}$ $m_2 = \frac{1}{3}$ $\perp$
negative reciprocal
(FLIP!)

6. $m_1 = \frac{2}{1}$ $m = -\frac{2}{1}$ Neither

$\rightarrow$ $m_1 = \frac{20}{25} = \frac{4}{5}$ $m_2 = \frac{4}{5}$
 $m_1 // m_2$

11.

$$M = \frac{3}{1}$$

$$m // = \frac{3}{1} - \frac{6}{2}$$

$$m \perp = \frac{1}{3}$$

16.

m is undefined

$m //$ is undefined

$$m \perp = 0$$

homework

p. 437 thru 30.

Review package

25^g thru 25 - 30
(4, -5) parallel to $y = -x + 3$
 $\therefore m = -1$
 $y = mx + b$
 $-5 = -1(4) + b$