

Algebra 1

Wed
1-9-13

$m_{//}$ or m_{\perp}

CLASS
NOTES

⊙ through $(-3, 1)$

$$// \text{ to } y = -2x + 5$$

x, y
1, 1

$$y = mx + b$$

$$m_{//} = -2$$

$$1 = -2(-3) + b$$

$$1 = 6 + b$$

$$-5 = b$$

$$y = -2x - 5$$

Worksheet Practice

⑭ through $(3, -2)$ perp.
 x, y to $y = -\frac{2}{5}x - 5$

$$y = mx + b$$

$$m_{\perp} = +\frac{5}{2}$$

$$-2 = \frac{5}{2}(3) + b$$

$$-\frac{4}{2} = -\frac{2}{1} = \frac{15}{2} + b$$

$$-\frac{15}{2} \quad -\frac{15}{2}$$

$$-\frac{19}{2} = b$$

$$y = \frac{5}{2}x - \frac{19}{2}$$

(15) through $(3, -2)$ perp to $y = \frac{1}{2}x + 3$
 x, y

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

$$y = mx + b$$

$$-2 = -2(3) + b$$

$$-2 = -6 + b$$

$$+6 \quad +6$$

$$4 = b$$

$$y = -2x + 4$$

(28)

$$\frac{-6x - 15}{-5} = \frac{-5y}{-5}$$

$$\frac{6}{5}x + 3 = y$$

