

BE-1B

MONDAY 10-1-07

① WRITE THE EOL IN S-I Form
WITH SLOPE $\frac{3}{4}$ THROUGH $(-4, -5)$

💡 YOU CAN USE EITHER THE
"P-S METHOD" OR "Y=MX+B TWICE"
METHOD

② WRITE THE EOL IN S-I Form
WITH SLOPE -2 THROUGH $(0, -4)$

~~~~~ ANSWER WB ~~~~~

① Pg. 65 # 8

② Pg. 65 # 9

# Some Geometry Terms

Complementary  
Angles

Angles THAT ADD UP  
to 90 degrees =  $90^\circ$

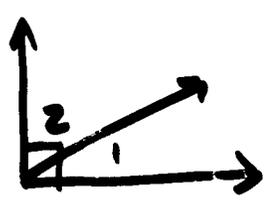
↑  
RIGHT ANGLE  
(PERPENDICULAR)

Supplementary  
Angles

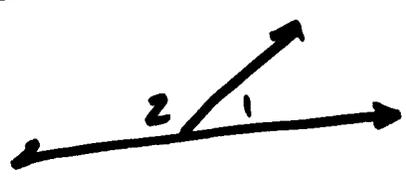
Angles THAT ADD UP  
to  $180^\circ$

Memory  
Aid

90, 180 in order  
C, S Alphabetical



$m\angle 1 = 30^\circ$   
 $m\angle 2 = 60^\circ$   
 $\angle 1$  and  $\angle 2$  ARE complementary



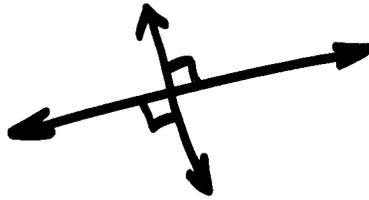
$m\angle 1 = 20^\circ$   
 $m\angle 2 = 160^\circ$   
 $\angle 1$  and  $\angle 2$  ARE supplementary

## Ch. 5-6 Parallel and Perpendicular Lines

---

// parallel, lines never meet

⊥ perpendicular, lines meet at  $90^\circ$



$m_{//}$  parallel lines have the **SAME** slope

$y = 2x + 5$  is // to  $y = 2x - 8$

---

$m_{\perp}$  perpendicular lines have slopes that are **NEGATIVE RECIPROCAL.**

---

$y = 2x + 7$  is  $\perp$  to  $y = -\frac{1}{2}x + 16$

---

EX1  
Pg 292

Find EOL in S-I Form  
through  $(-1, -2)$  and  $\parallel$  to  $y = -3x - 2$

$$m_{11} \text{ to } y = -3x - 2$$

$$m_{11} = -3$$

$$(-1, -2)$$

$x, y$

$$y + 2 = -3(x + 1)$$

$$y + 2 = -3x - 3$$

$-2 \qquad \qquad \qquad -2$

$$y = -3x - 5$$

Alternate method,  $y = mx + b$  twice

$$m_{11} = -3 \quad (-1, -2) \quad y = mx + b$$

$x \quad y$

$$-2 = -3 \cdot -1 + b$$

$$-2 = 3 + b$$

$$\begin{array}{r} -3 \\ -3 \end{array}$$

$$-5 = b$$

$$y = -3x - 5$$

Ex 3  
Pg 294

Find EOL in S-I Form for line through (-3, -2) and perpendicular to  $x + 4y = 12$

$m_{\perp}$  to  $x + 4y = 12$   
                   $-x$                    $-x$

$$\frac{4y}{4} = \frac{-x + 12}{4}$$

$$y = -\frac{1}{4}x + 3$$

$m_{\perp} = 4$

through (-3, -2)  
                   $x, y$

$$y + 2 = 4(x + 3)$$

$$y + 2 = 4x + 12$$

$-2$                    $-2$

USE P-S METHOD,  
COULD USE  $y = mx + b$  twice

$y = 4x + 10$

---

HW: • Read Ch 5-7 "Scatter Plots"  
• Pg. 296 # 13, 14, 28, 29, 34