

Review

Dec. 07, 2006

Slope-Intercept form:

$$y = mx + b$$

You need/have: Slope + y-int.

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Point-Slope Form:

$$y - y_1 = m(x - x_1)$$

You need/have: Slope + a  
Pt. on the line

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Standard Form:

$$Ax + By = C$$

A + B are both not Zero

A + B are Integers Coefficients

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\*  $\perp$  m are opp. rec.

// m are the same

Write in S-I-F

$$m = -\frac{1}{4}$$

$$+ b = 3$$

/ Write the  
g.e.

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$$\text{Slope} = 0 \quad y\text{-int} = -\frac{5}{2}$$

Write in S-I-F

$$\left( \begin{array}{l} 3, -9 \\ (x_1, y_1) \end{array} \right) \quad m = -5$$

⊛ Pt & Slope  $\rightarrow$  P.S.F.  $\rightarrow$  S.I.F.

$$y - y_1 = m(x - x_1)$$


Write in

S-I-F

$(0, -5)$

$$m = \frac{8}{3}$$

$(x_1, y_1)$

$$y - y_1 = m(x - x_1)$$

or



write in S-F a line  $\perp$  to

$$y = -\frac{1}{3}x + 5 \quad \& \text{ goes through}$$

$$Pt (6, 9) \quad m = \perp \text{ to } -\frac{1}{3} \text{ so...}$$

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

$$y - y_1 = m(x - x_1)$$

$$y - 9 = 3(x - 6) \rightarrow \text{P.S.F. (has rs)}$$

$$y - 9 = 3x - 18$$

$$\begin{array}{r} +9 \qquad +9 \\ \hline y = 3x - 9 \end{array} \rightarrow \text{S.I.F.}$$

$$\begin{array}{r} -3x \qquad -3x \\ \hline -3x + y = -9 \end{array} \rightarrow \text{S.F.}$$

$$A = -3$$

$$B = 1$$

$$C = -9$$

Write in S-F a line that  
 is parallel to  $y = -\frac{1}{5}x + 3$   
 & goes through  $(4, 2)$   
 $(x_1, y_1)$

$m = //$  to  $-\frac{1}{5}$ , so...

$$m = -\frac{1}{5}$$

$$y - y_1 = m(x - x_1)$$

$$y - 2 = -\frac{1}{5}(x - 4) \rightarrow \text{P.S.F.}$$

$$5(y - 2) = \left(-\frac{1}{5}x + \frac{4}{5}\right)5$$

$$5y - 10 = -1x + 4$$

$$5y = -1x + 14$$

$$\begin{array}{r} +1x \\ \hline 1x + 5y = 14 \end{array}$$

$$\begin{array}{l} A = 1 \\ B = 5 \\ C = 14 \end{array}$$

O.T.L.

① <sup>pg 317</sup> 1, 7, 14, 20, 23, 26 } Due w/  
Test

② Study for Test Tomorrow

— All 3 Quizzes from Book

— Ch. 5 Test Pg 317