

Review

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Slope-Intercept form:

$$y = mx + b$$

You need/have: Slope + y-int.

Point-Slope Form:

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

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

Standard Form:

$$Ax + By = C$$

A + B are both not Zero

A + B are Integers Coefficients

* \perp m are opp. rec.

// m are the same

Write in S-I-F

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

$$+ b = 3$$

/ Write the
g.e.

$$\text{Slope} = 0$$

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

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

Pt $(6, 9)$ $m = \perp$ to $-\frac{1}{3}$, so...
 (x_1, y_1) $m = \underline{\underline{3}}$

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

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

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

$+9 \qquad +9$

$$y = 3x - 9$$

$$-3x \quad -3x$$

$$-3x + y = -9$$

$$\begin{aligned} A &= -3 \\ B &= 1 \\ C &= -9 \end{aligned}$$

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

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

$m = -\frac{1}{5}$ $y - y_1 = m(x - x_1)$

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

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

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

$5y = -1x + 14$

$+1x \quad +1x$

$1x + 5y = 14$

$A = 1$
 $B = 5$
 $C = 14$

O.T.L.

① ^{pg 317} 1, 7, 14, 20, 23, 26 } Due w/
Test

② Study for Test Tomorrow

— All 3 Quizzes from Book

— Ch. 5 Test Pg 317