

Monday

Review
for Ch 5 Test March 26, 2007

First: Be Sure to
turn in today right Now!
the 5.3 wk.st.

- Make Sure You Staple your work to the wk.st.
- Your name is on every piece of paper!
- & the Answers are re-written on the wk.st.

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Know your terms.

G.E. = Generic Equation

S.I.F. = Slope-Intercept Form.

P.S.F. = Point-Slope Form.

S.F. = Standard Form.

L = Perpendicular Slopes

|| = Parallel

What is the G.E. for the S.I.F.?

$$\cancel{y = mx + b}$$

What are the two things you have/need for the S.I.F.?

Slope + y-intercept

Tuesday

What is the G.E. for the P.S.F.?

$$\underline{y - y_1 = m(x - x_1)}$$

What are the two things you have/need for the P.S.F.

Point on the line + slope

What is the G.E. for the S.F. ?

$$\underline{Ax + By = C}$$

Where A & B are both
not zero

A & B are called
Integer Coefficients

Perpendicular Slopes are

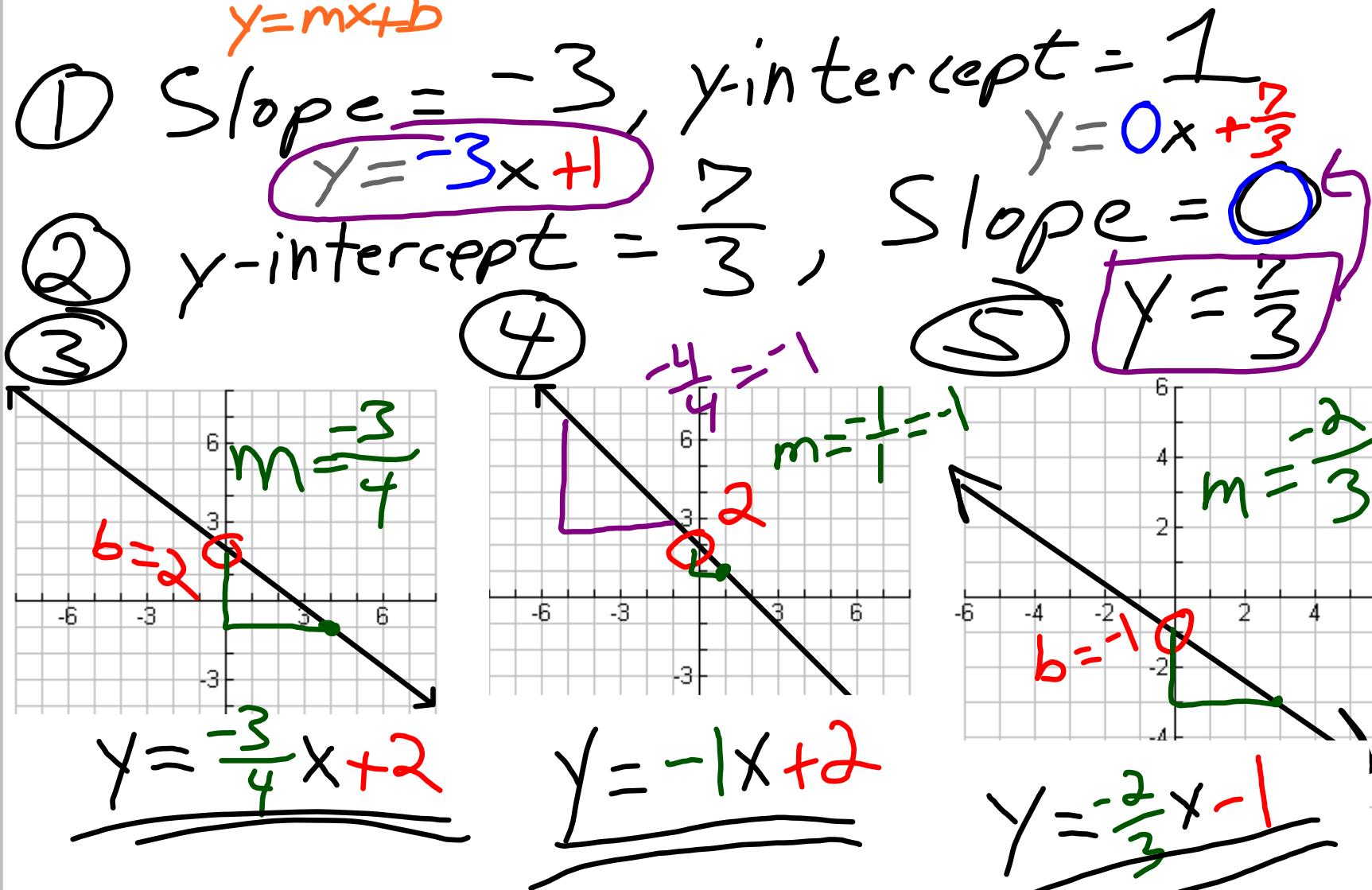
opposite reciprocal

Parallel Slopes are

the Same / equal

Write in S.I.F.; Be sure to
Show All work; + the G.E.

$$y = mx + b$$



Wednesday

write in P-S-F. the Equation
w/ the given Slope Passing
through the given Point
 $y - y_1 = m(x - x_1)$

① $(8, 8)$, $m = -4$

$$\underline{y - 8 = -4(x - 8)}$$

② $(-9, -3)$, $m = 4$

$$\underline{x - \cancel{-3} = 4(x - \cancel{-9})}$$

③ $(0, 0)$, $m = -\frac{3}{4}$

$$\underline{y + 3 = 4(x + 9)}$$

$$y - 0 = -\frac{3}{4}(x - 0)$$

$$Y = -\frac{3}{4}(x)$$

write in S-T-F the Equation
w/ the given Slope Passing
through the given point

$$\textcircled{1} \quad (3, 4), m = 1$$
$$y - y_1 = m(x - x_1)$$
$$y - 4 = 1(x - 3)$$
$$y - 4 = 1x - 3$$
$$\underline{\quad +4 \quad +4}$$
$$\underline{\underline{y = 1x + 1}}$$

$$\textcircled{2} \quad (-7, 5), m = 0$$
$$y - y_1 = m(x - x_1)$$
$$y - 5 = 0(x - -7)$$
$$y - 5 = 0$$
$$\underline{\quad +5 \quad +5}$$
$$\underline{\underline{y = 5}}$$

$$\textcircled{3} \quad (1, -5), m = -5$$
$$y - y_1 = m(x - x_1)$$
$$y - -5 = -5(x - 1)$$
$$y + 5 = -5x + 5$$
$$\underline{\quad -5 \quad -5}$$
$$\underline{\underline{y = -5x}}$$

Thursday Write in S-I.F. the equation parallel to the given line & passing through the given point

$$\textcircled{1} \quad y = 5x + 2, (1, 0)$$

$$m = 5 \quad y - y_1 = m(x - x_1)$$

$$y - 0 = 5(x - 1)$$

$$\underline{\underline{y = 5x - 5}}$$

$$\textcircled{2} \quad y = \frac{2}{3}x + 3, (4, 2)$$

$$m = \frac{2}{3} \quad y - y_1 = m(x - x_1)$$

$$\frac{2}{3}(4) \quad y - 2 = \frac{2}{3}(x - 4)$$

$$\left(\frac{2}{3} \cdot \frac{4}{1} = \frac{8}{3} \right) \quad y - 2 = \frac{2}{3}x - \frac{8}{3} + \frac{6}{3}$$

$$+ \frac{6}{3} \quad \underline{\underline{y = \frac{2}{3}x - \frac{2}{3}}}$$

$$\begin{aligned} -\frac{8}{3} + \frac{2}{1} \\ -\frac{8}{3} + \frac{6}{3} = -\frac{2}{3} \end{aligned}$$

Thursday Write in S-F the equation
parallel to the given line &
passing through the given point

$$\textcircled{1} \quad y = -2x + 5, (0, 6)$$

$$m = -2 \quad y - y_1 = m(x - x_1)$$

$$y - 6 = -2(x - 0)$$

$$y - 6 = -2x$$

$$\underline{\quad +2x \quad \quad +2x}$$

$$2x + y - 6 = 0$$

$$\underline{\quad +6 \quad \quad +6}$$

$$\underline{\underline{2x + y = 6}}$$

$$\textcircled{2} \quad y = \frac{1}{6}x + 3, (-6, -6)$$

$$m = \frac{1}{6}$$

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

$$y - -6 = \frac{1}{6}(x + 6)$$

$$6(y + 6) = (\frac{1}{6}x + 1)6$$

$$6y + 36 = \frac{1}{6}x + 6$$

$$\underline{\quad -x \quad \quad -36 \quad \quad -x \quad -36}$$

$$\underline{\underline{-x + 6y = -30}}$$

Thursday Write in S-I-F the equation
perpendicular to the given line &
Passing through the given point

$$\textcircled{1} \quad y = -5x + 6, (0, 6)$$

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

$$\therefore \quad y = mx + b$$

$$\textcircled{2} \quad y = \frac{1}{7}x, (2, -1)$$

$$m = -7 \quad y - y_1 = m(x - x_1)$$

$$\therefore \quad y = mx + b$$

Thursday Write in S-F the equation
Perpendicular to the given line &
Passing through the given point

$$\textcircled{1} \quad y = 7x + 1, (2, 1)$$

$$m = -\frac{1}{7} \quad y - y_1 = m(x - x_1)$$

$$Ax + By = C$$

$$\textcircled{2} \quad y = -\frac{1}{4}x - 3, (7, 7)$$

$$m = 4 \quad y - y_1 = m(x - x_1)$$

$$Ax + By = C$$