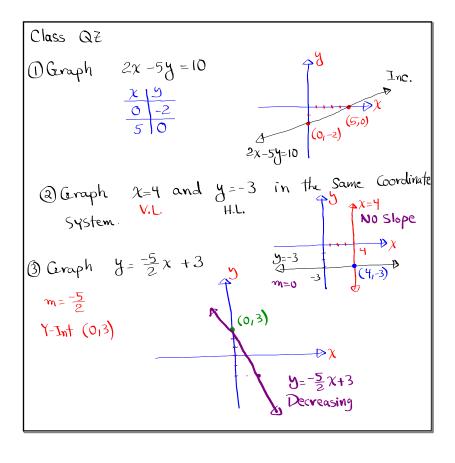


Feb 19-8:47 AM



Find the slope of the line that contain
$$A(-5,7) \text{ and } \operatorname{Recall} m = \frac{y_1 - y_2}{\chi_1 - \chi_2}$$

$$1) B(3,7) \qquad 2) B(-5,-2) \qquad 3) B(0,0)$$

$$m = \frac{7 - 7}{-5 - 3} = \frac{0}{-8} = 0$$

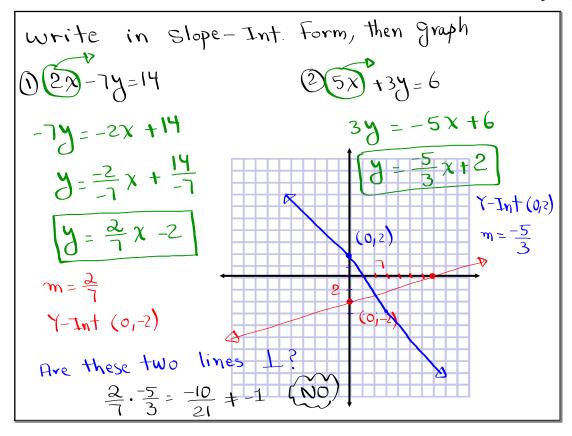
$$m = \frac{7 - (-2)}{-5 - (-5)} \qquad m = \frac{7 - 0}{-5 - 0}$$

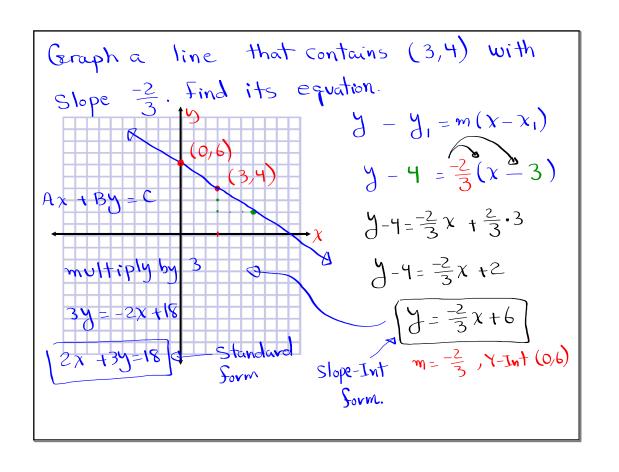
$$= \frac{7 + 2}{-5 + 5} = \frac{9}{0} \qquad = \frac{7}{-5}$$

$$4) B(1,3) \qquad No slope$$

$$m = \frac{7 - 3}{-5 - 1} = \frac{4}{-6} \qquad Undefined slope$$

$$\sqrt{-2} = \frac{3}{3}$$





Find equation of a line that contains
$$(3,-5)$$

with slope $\frac{3}{2}$. Graph the line and clearly

mark important information.

 $y - y_1 = m(x - x_1)$
 $y - 5 = \frac{3}{2}(x - 3)$
 $y + 5 = \frac{3}{2}(x - 3)$

LCD = 2

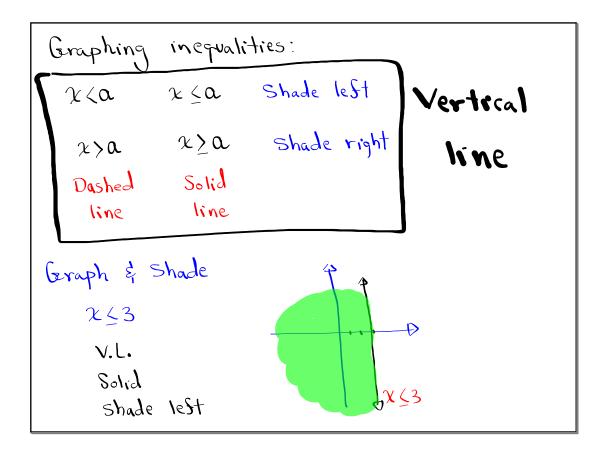
 $y + 10 = 3(x - 3)$
 $y + 10 = 3(x - 3)$

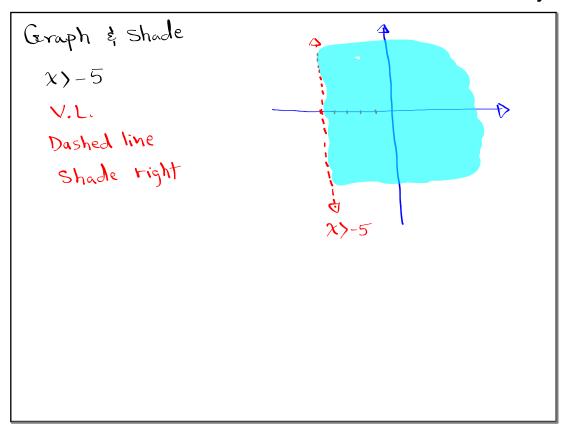
Standard

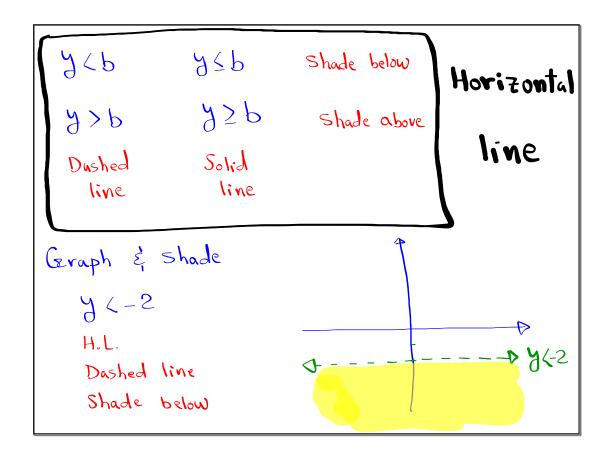
Slope-Int $y = \frac{3}{2}(x - 3)$

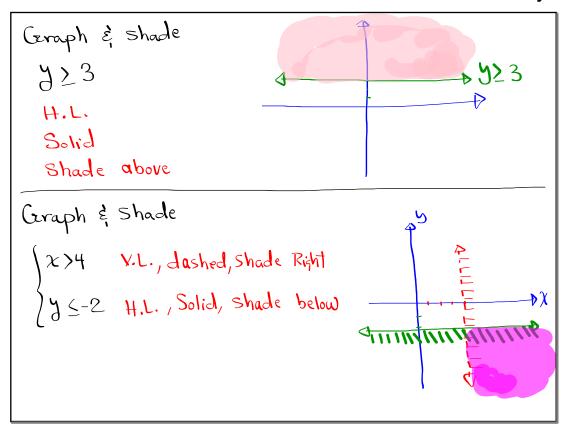
Slope-Int $y = \frac{3}{2}(x - 3)$

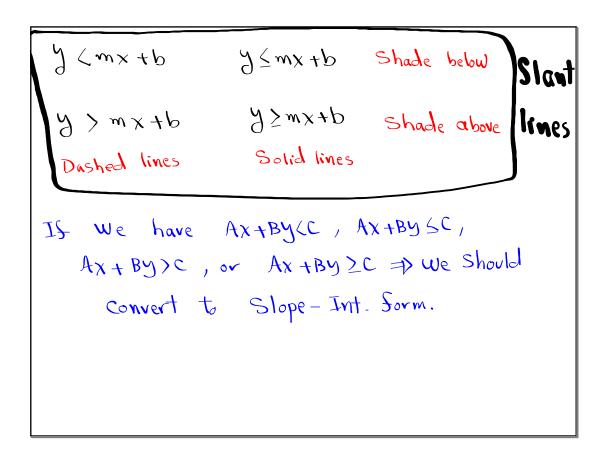
Slope-Int $y = \frac{3}{2}(x - 3)$









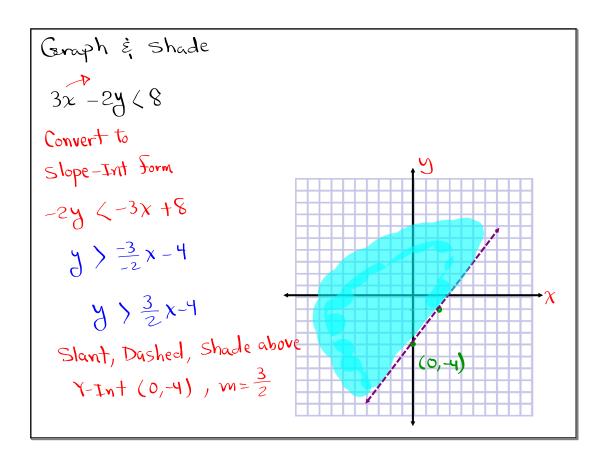


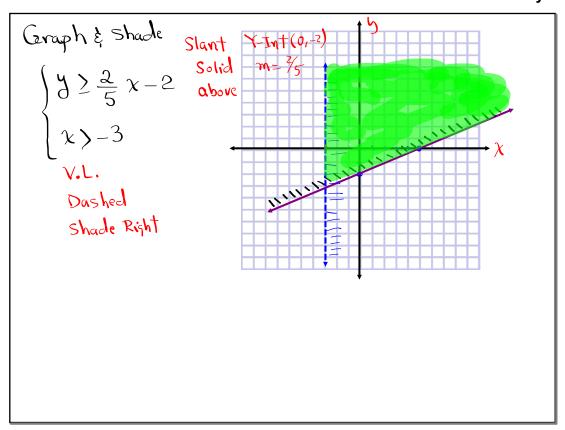
Caraph & Shade $5x + 2y \le 10$ Convert to

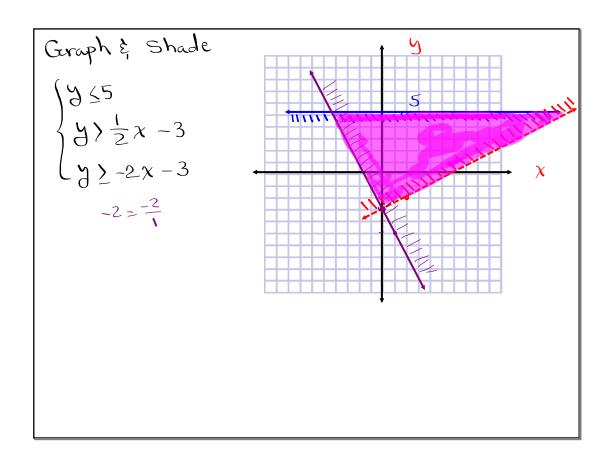
Slope-Int Form $2y \le -5x + 10$ $3y \le -\frac{5}{2}x + 5$ Slant line

Solid line

Shade below







a) Graph the line $y = \frac{3}{4}x + 2$ b) Graph another line that contains

(0, -4) and parallel to it.

Same slope

c) Sind eqn of the Second line. $y = \frac{3}{4}x + 2$ $y = \frac{3}{4}x + 2$ $y = \frac{3}{4}x + 2$ b) Graph another line that contains $y = \frac{3}{4}x + 2$ $y = \frac{3}{4}x + 2$

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

a) Graph the line $y = \frac{3}{4}x + 3$ b) Graph a Second line

that contains (0, -2) and

is Perpendicular) to the

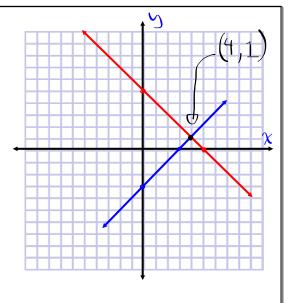
six Perpendicular is Reciprocal

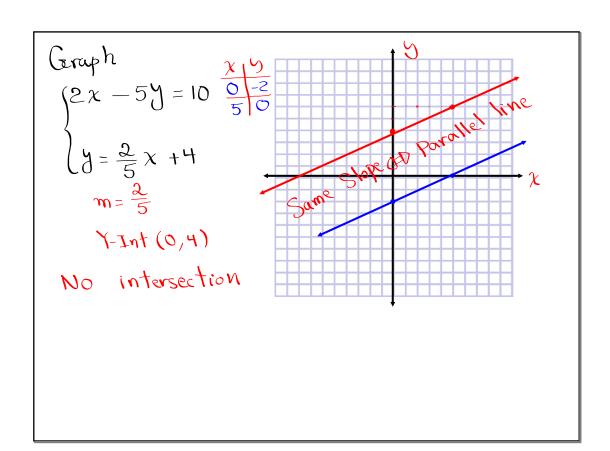
First line. Lyslope is Reciprocal $-(\frac{-4}{3}) = \frac{4}{3}$ c) Sind eqn of the Second

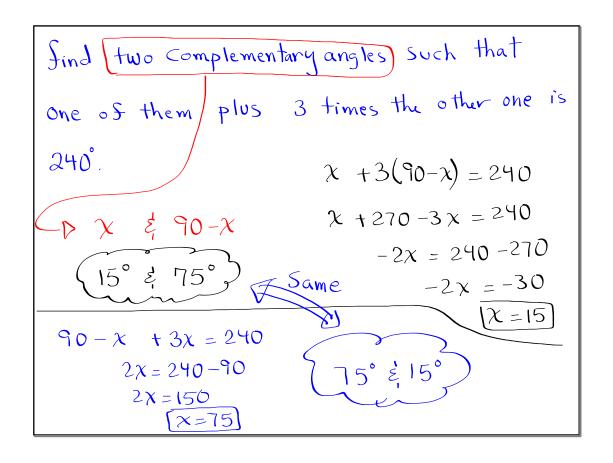
line. $y - y_1 = m(x - x_1)$ $y - 2 = \frac{4}{3}(x - 0)$ $y + 2 = \frac{4}{3}x$ $y = \frac{4}{3}x - 2$

Geraph
$$\begin{cases} x + y = 5 \\ 2x - y = 3 \end{cases} \xrightarrow{x \mid y \\ 3 \mid 0}$$
Geness their

intersection Point







Find two supplementary angles such that

one of them is twice another one.

$$\chi = 2 (180 - \chi)$$

$$\chi = 360 - 2\chi$$

$$\chi = 360$$

