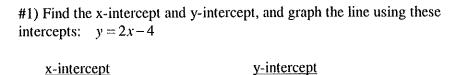
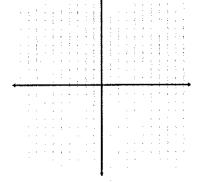
Practice

Equations of Lines: x- and y-intercepts

Answer these problems, then check your answers using the key on the next page. If you missed something, look at the solutions after the answer key, and if you still don't understand, watch the review video again.



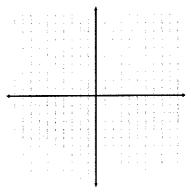


#2) Find the x-intercept and y-intercept, and graph the line using these intercepts: 3x + 4y = 12

x-intercept

x-intercept

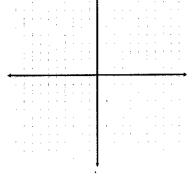
y-intercept

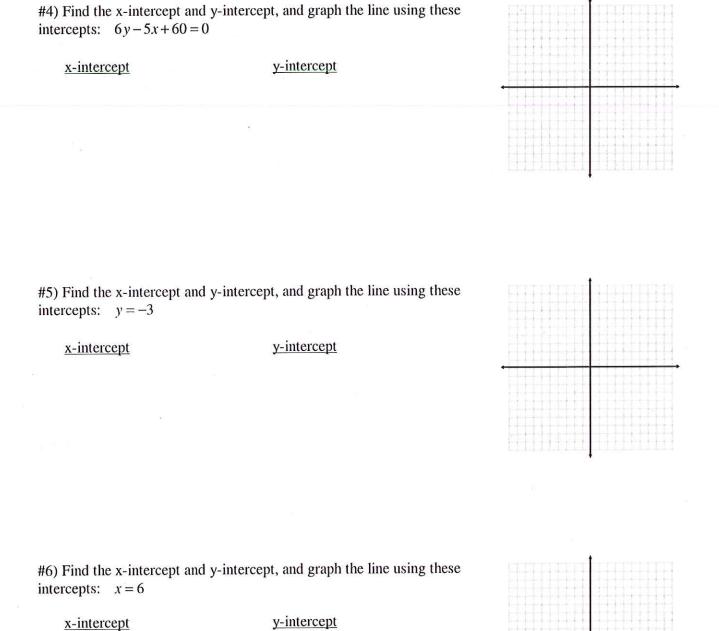


#3) Find the x-intercept and y-intercept, and graph the line using these intercepts: 7x+3y-21=0

x-intercept

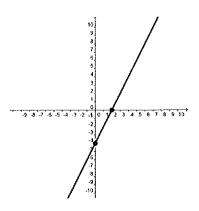
y-intercept



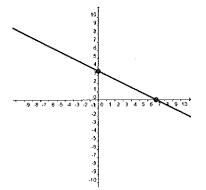


Answers:

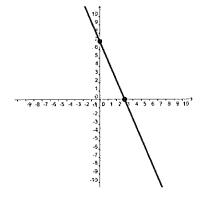
#1) x-intercept: (2,0) y-intercept: (0,-4)



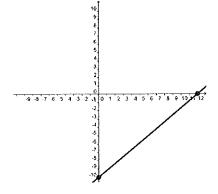
#2) x-intercept: $\left(0, \frac{7}{2}\right)$



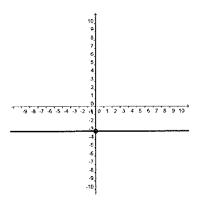
#3) x-intercept: (3,0) y-intercept: (0,7)



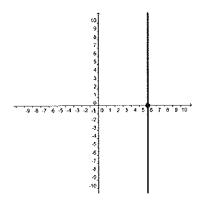
#4) x-intercept: (12,0) y-intercept: (0,-10)



#5) No x-intercept, y-intercept:(0,-3)



#6) x-intercept: (6,0) No y-intercept



Solutions:

#1) Find the x-intercept and y-intercept, and graph the line using these intercepts: y = 2x - 4

$$\frac{x - intercept}{(wken y = 0)}$$

$$y = 2x - 4$$

$$(0) = 2x - 4$$

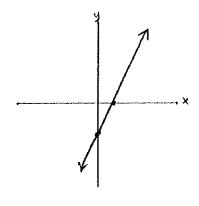
$$44 + 4$$

$$4 - 7x$$

$$2 = x$$

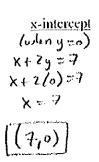
$$(2,0)$$

y-intercept
(when
$$x=a$$
)
 $y=2x-4$
 $y=2(a)-4$
 $y=-4$
 $(0,-4)$



.....

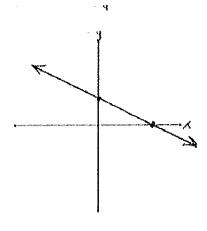
#2) Find the x-intercept and y-intercept, and graph the line using these intercepts: x + 2y = 7



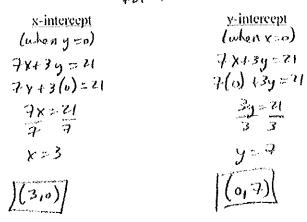
y-intercept
(when x = 9)

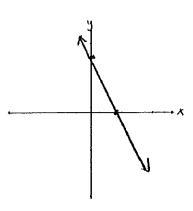
$$x + 2y = 7$$

(a) $+ 7y = 7$
 $2y = 7$



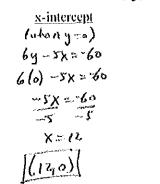
#3) Find the x-intercept and y-intercept, and graph the line using these intercepts: 7x+3y-21=0 +21 +21 +21

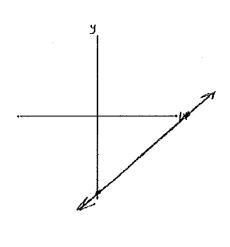




#4) Find the x-intercept and y-intercept, and graph the line using these

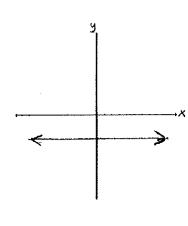
intercepts:
$$6y - 5x + 60 = 0$$





#5) Find the x-intercept and y-intercept, and graph the line using these intercepts: y = -3

$$\begin{array}{l} \frac{x-intercept}{tuben \ y = 0)} \\ bat \ y = -3 \end{array}$$



#6) Find the x-intercept and y-intercept, and graph the line using these intercepts: x = 6



