Linear and non-linear relationships

Topic 3: Using the intercept method to graph lines

QUESTION **1** Find the x-intercept for each equation.

a $x + y = 2$ _____

b $x - y = 4$ _____

c $2x + y = 6$ _____

d $2x - y = 8$ _____

e $x - 3y = 6$ _____

f $2x - 3y = 12$ _____

QUESTION **2** Find the y-intercept for each equation.

a $x - 2y = 4$ _____

b $x - y = 8$ _____

c $2x + y = 6$ _____

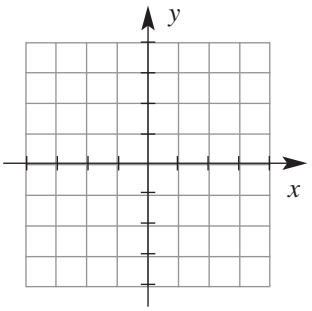
d $2x - y = 3$ _____

e $3x - 4y = 12$ _____

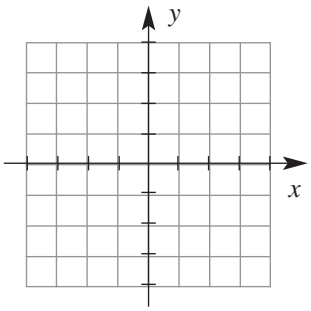
f $3x - y = 3$ _____

QUESTION **3** Draw the graph of each equation, given the x-intercept and the y-intercept:

a x-intercept = 3, y-intercept = 2



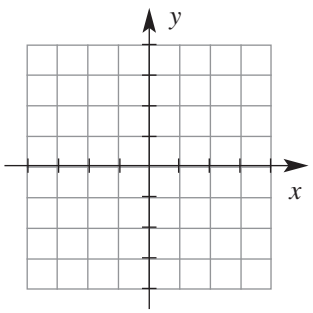
b x-intercept = –1, y-intercept = 3



QUESTION **4** For each equation, find the x-intercept and the y-intercept and then draw its graph.

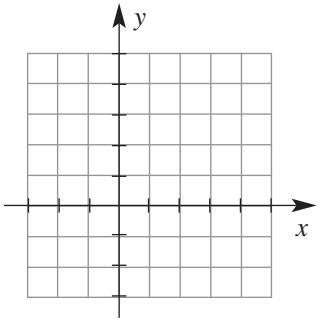
a $y = -2x + 3$

x	0	
y		0



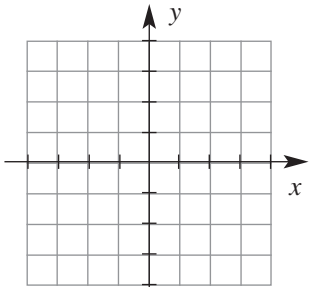
b $x + y - 5 = 0$

x	0	
y		0



c $y = 2x - 3$

x	0	
y		0



d $y = \frac{4}{3}x - 1$

x	0	
y		0