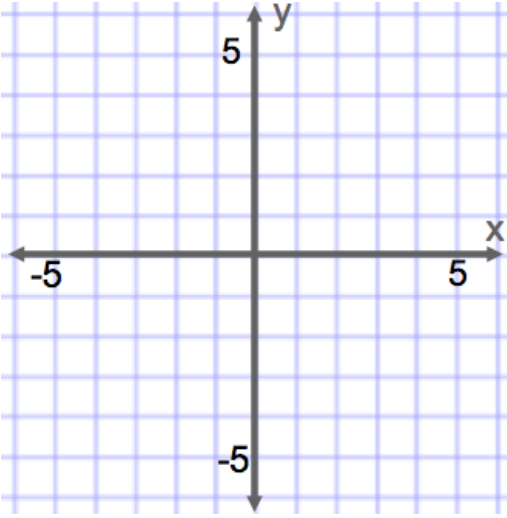


## 7.1 – Stating Equations for Lines

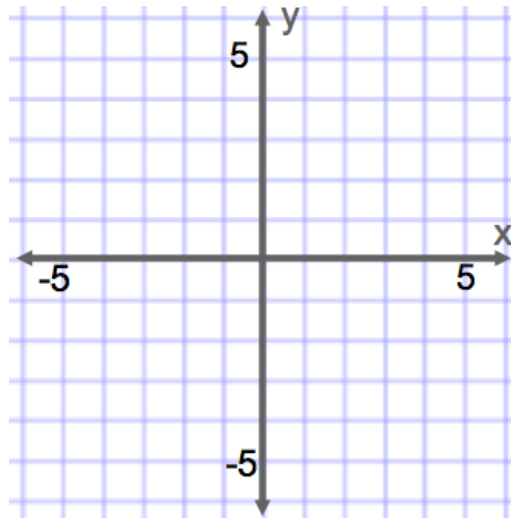
**Set 1** – State the equation of the line using  $y = mx + b$  and the information given.

LP#1 $m = 4$ $b = -7$	$m = -2$ $b = 5$	Slope = $1/2$ y-intercept = $-1$	Slope = $3/4$ y-intercept = $6$
LP#2 Slope = $-3$ $(0,8)$	Slope = $3/2$ $(0,-2)$	Slope = $-4$ $(9,0)$ and $(0,1)$	Slope = $2/3$ $(0,-5)$ and $(-7,0)$

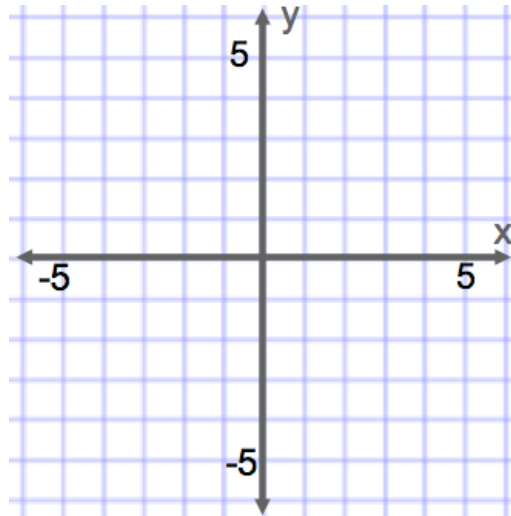
**Set 2** – Plot the two points and draw a straight line through them. Use the graph to determine the equation for the line.

LP#3 $(-4,-2)$ and $(1,2)$	
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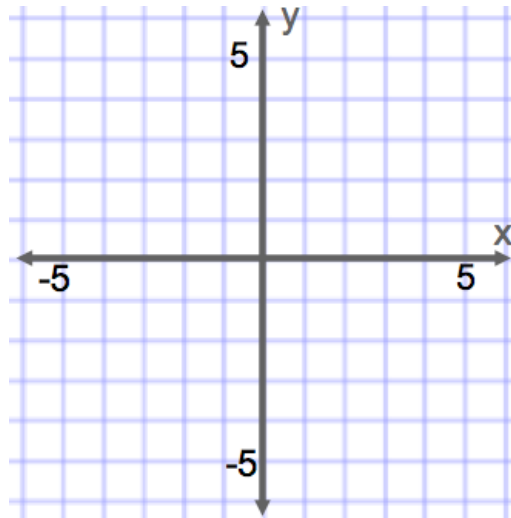
**LP#4**  
**(3,-4) and (-3,4)**



**LP#5**  
**(1,1) and (4,3)**



**LP#6**  
**(9,4) and (5,3)**



**Set 3** – Without using graph paper, determine the equation of a line that passes through the pair of points.

**LP#7**  
**(4,2) and (5,3)**

**(2,0) and (3,4)**

**(-3,1) and (3,-5)**

**Review** – Without using graph paper, determine the equation of a line that passes through the pair of points.

<b>R#1</b> (9,-1) and (6,2)	(12,5) and (-4,1)	(4,6) and (1,3)
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**Homework** - Without using graph paper, determine the equation of a line that passes through the pair of points.

- |                        |                       |                        |
|------------------------|-----------------------|------------------------|
| 1) (6,3) and (-6,9)    | 2) (12,-2) and (6,-2) | 3) (8,-4) and (-4,-1)  |
| 4) (5,0) and (2,-3)    | 5) (12,2) and (6,2)   | 6) (-5,10) and (3,-6)  |
| 7) (10,-6) and (-2,-6) | 8) (4,5) and (8,8)    | 9) (4,-4) and (-4,-2)  |
| 10) (-3,2) and (3,-8)  | 11) (3,16) and (1,12) | 12) (-2,5) and (-4,13) |