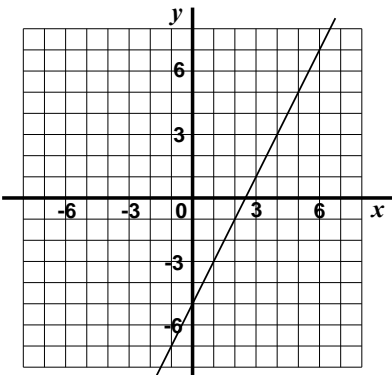
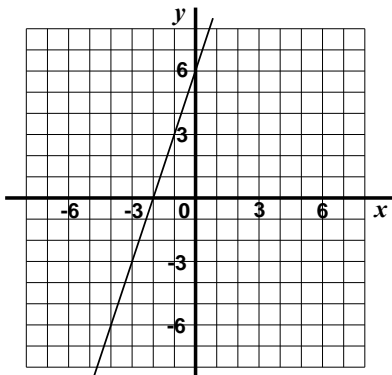
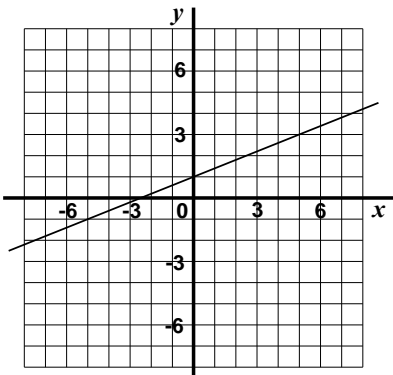
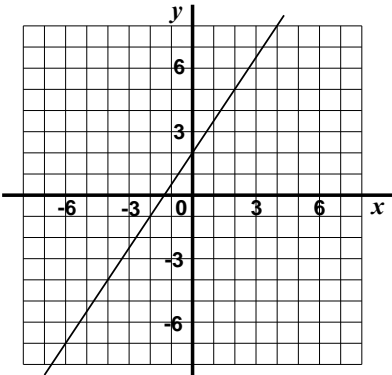
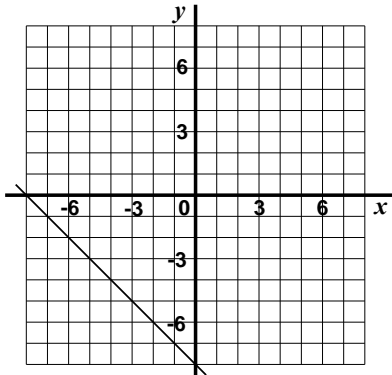
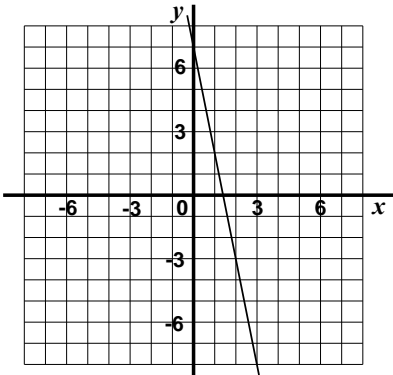
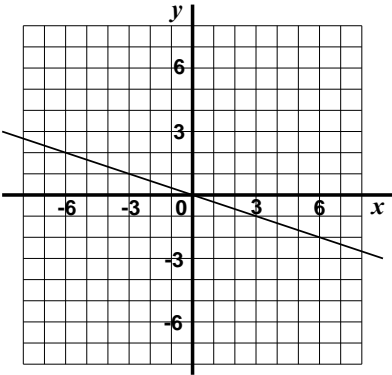
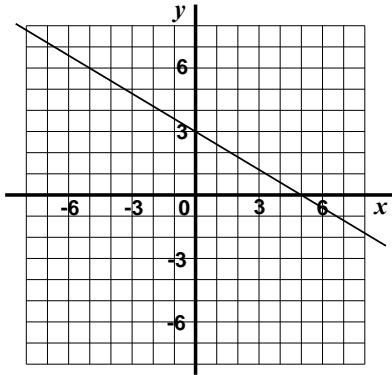
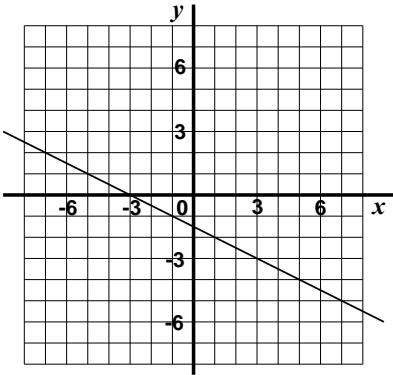


Mathematics 9
Finding Equations of Lines

Date: _____

<p>1.</p> 	<p>2.</p> 	<p>3.</p> 
<p>$m =$ $b =$</p>	<p>$m =$ $b =$</p>	<p>$m =$ $b =$</p>
<p>Equation of line:</p>	<p>Equation of line:</p>	<p>Equation of line:</p>
<p>4.</p> 	<p>5.</p> 	<p>6.</p> 
<p>$m =$ $b =$</p>	<p>$m =$ $b =$</p>	<p>$m =$ $b =$</p>
<p>Equation of line:</p>	<p>Equation of line:</p>	<p>Equation of line:</p>
<p>7.</p> 	<p>8.</p> 	<p>9.</p> 
<p>$m =$ $b =$</p>	<p>$m =$ $b =$</p>	<p>$m =$ $b =$</p>
<p>Equation of line:</p>	<p>Equation of line:</p>	<p>Equation of line:</p>

Place the letter of the correctly matching line in the box beside each equation.

1.

i	<input type="text"/>	$y = -x + 2$
ii	<input type="text"/>	$y = \frac{1}{2}x + 2$
iii	<input type="text"/>	$y = -2x + 2$
iv	<input type="text"/>	$y = 2x + 2$
v	<input type="text"/>	$y = 2$
vi	<input type="text"/>	$y = 3x + 2$

2.

i	<input type="text"/>	$y = x - 4$
ii	<input type="text"/>	$y = -\frac{1}{2}x - 4$
iii	<input type="text"/>	$y = x + 4$
iv	<input type="text"/>	$y = -\frac{1}{2}x + 4$
v	<input type="text"/>	$y = x$
vi	<input type="text"/>	$y = -\frac{1}{2}x$

3.

i	<input type="text"/>	$y = \frac{2}{3}x + \frac{3}{2}$
ii	<input type="text"/>	$y = -\frac{2}{3}x - 1$
iii	<input type="text"/>	$y = \frac{2}{3}x$
iv	<input type="text"/>	$x = -3$
v	<input type="text"/>	$y = -\frac{3}{2}x - 1$
vi	<input type="text"/>	$y = 3$

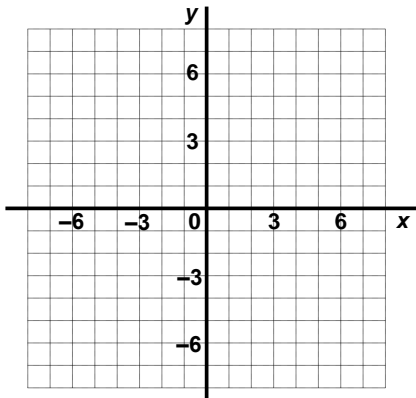
4.

i	<input type="text"/>	$y = -2$
ii	<input type="text"/>	$y = -x$
iii	<input type="text"/>	$y = 2$
iv	<input type="text"/>	$x = 2$
v	<input type="text"/>	$y = 4$
vi	<input type="text"/>	$y = x$

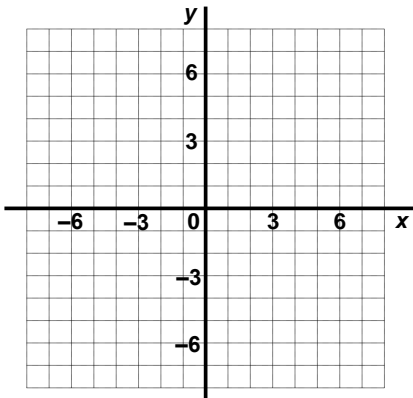
Mathematics 9
Plot & Name the Line

Date: _____

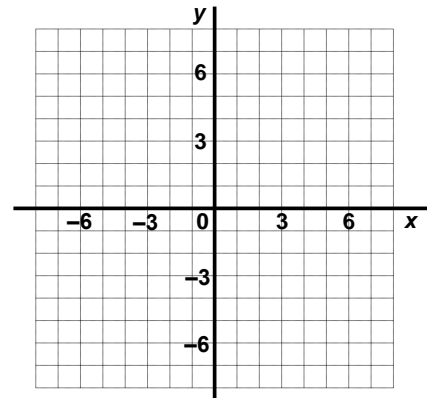
In each question, graph the line described then determine its equation and write it in the space provided.



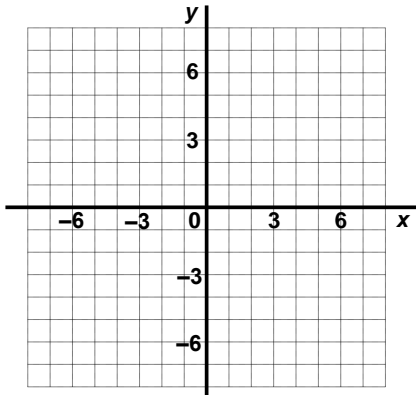
1. The line through the points $(2,5)$ and $(-2,-7)$.



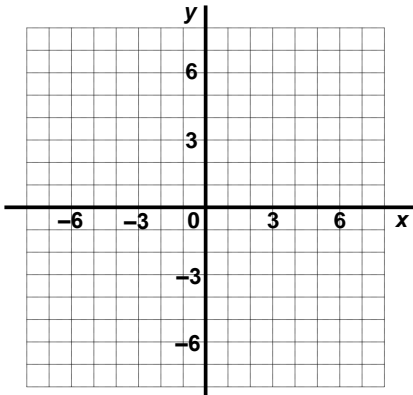
2. The line through the points $(1,0)$ and $(3,8)$.



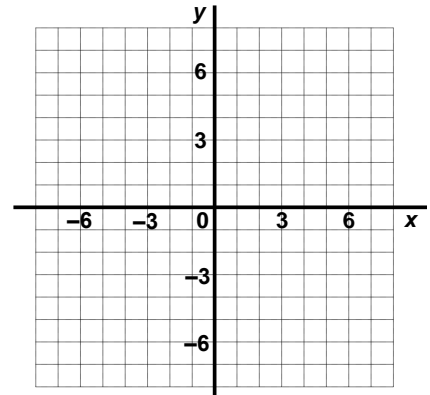
3. The line through the points $(-6,-6)$ and $(3,-3)$.



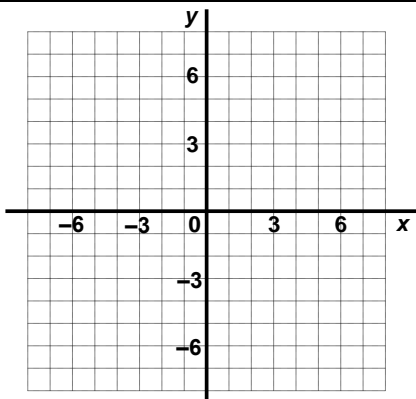
4. The line through the points $(-5,6)$ and $(-1,2)$.



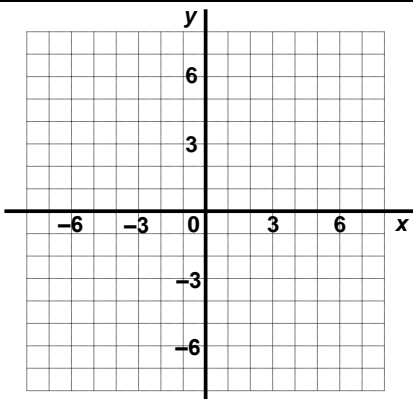
5. The line through the origin and the point $(8,-6)$.



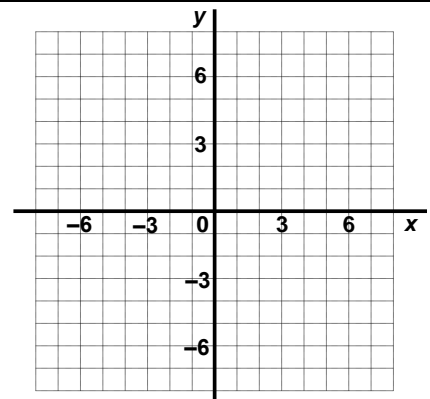
6. The line with x -intercept 6 and y -intercept 4.



7. The line with x -intercept -4 and y -intercept 6.



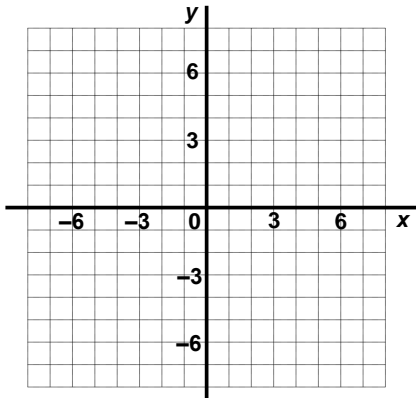
8. The line with x -intercept 7 and through the point $(-7,-4)$.



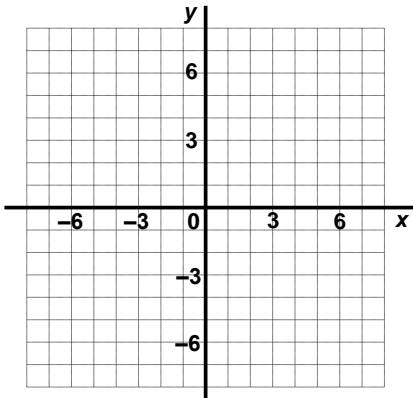
9. The line with y -intercept $\frac{3}{2}$ and through $(5,4)$.

Mathematics 9
Plot & Name the Line

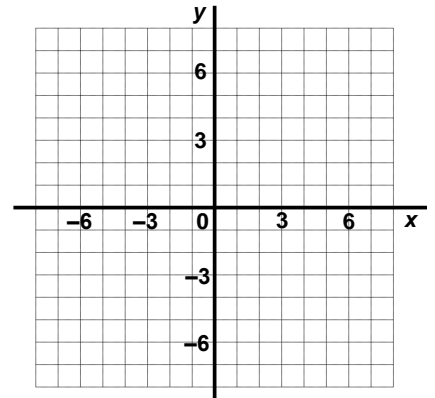
Date: _____



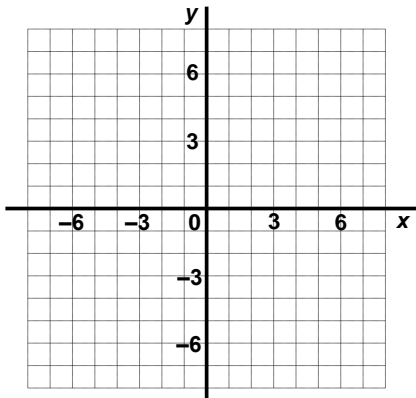
10. The line with y -intercept -5 and parallel to the x -axis.



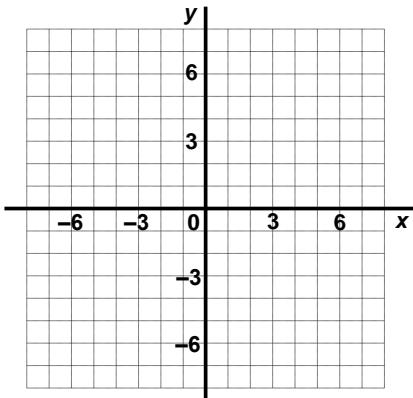
11. The line through the points $(-3,5)$ and $(-3,-2)$.



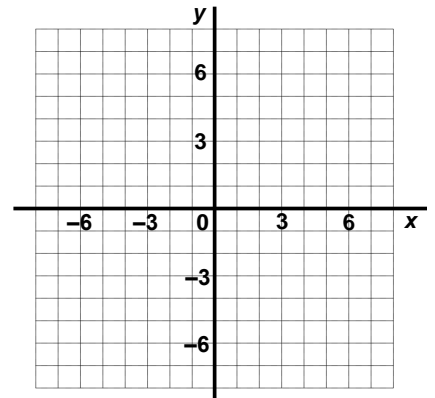
12. The line passing through the point $(-7,2)$ with slope $\frac{2}{7}$.



13. The line with slope $\frac{4}{3}$ and x -intercept -6 .



14. The line with slope $\frac{1}{5}$ passing through the point $(-5,-7)$.



15. The line with slope -6 passing through the point $(1,1)$.

Answers:

1. $y = 3x - 1$

2. $y = 4x - 4$

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

4. $y = -x + 1$

5. $y = -\frac{3}{4}x$

6. $y = -\frac{2}{3}x + 4$

7. $y = \frac{3}{2}x + 6$

8. $y = \frac{2}{7}x - 2$

9. $y = \frac{1}{2}x + \frac{3}{2}$

10. $y = -5$

11. $x = -3$

12. $y = \frac{2}{7}x + 4$

13. $y = \frac{4}{3}x + 8$

14. $y = \frac{1}{5}x - 6$

15. $y = -6x + 7$