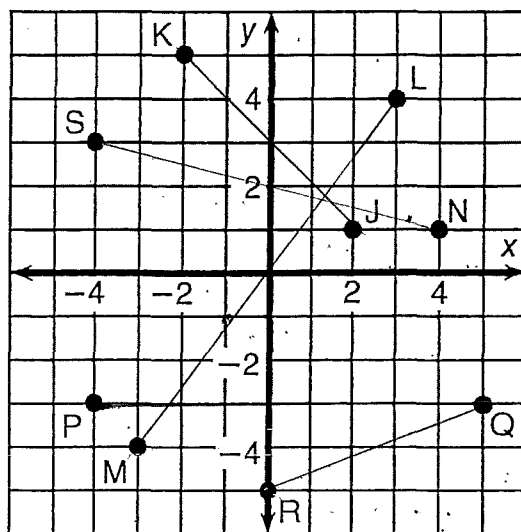
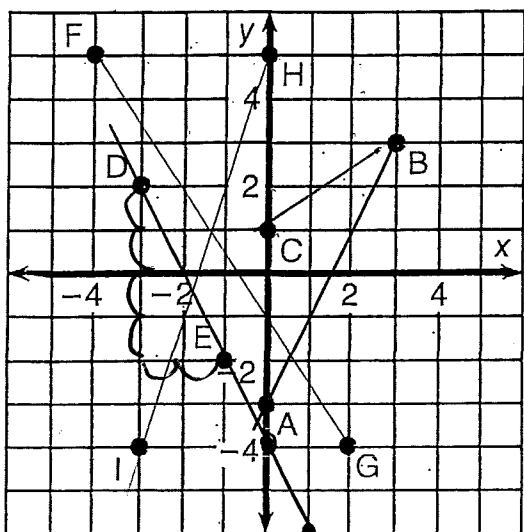


What Did the Ape Think of the Grape's House?

For each exercise, draw the line indicated and write its equation. Find your answer in the answer section and notice the two letters next to it. Print these letters in the two boxes at the bottom of the page that contain the number of that exercise.



✓ ① Equation of \overleftrightarrow{AB} $y = 2x - 3$

✓ ② Equation of \overleftrightarrow{CB} $y = \frac{2}{3}x + 1$

✓ ③ Equation of \overleftrightarrow{DE} $y = -2x - 4$

✓ ④ Equation of \overleftrightarrow{FG} $y = -\frac{3}{2}x - 1$

✓ ⑤ Equation of \overleftrightarrow{HI} $y = 3x + 5$

✓ ⑥ Equation of \overleftrightarrow{JK} $y = -x + 3$

✓ ⑦ Equation of \overleftrightarrow{LM} $y = \frac{4}{3}x$

✓ ⑧ Equation of \overleftrightarrow{NS} $y = \frac{1}{4}x + 2$

✓ ⑨ Equation of \overleftrightarrow{PQ} $y = -3$ horizontal

⑩ Equation of \overleftrightarrow{RQ} $y = \frac{2}{5}x - 5$

Answers:

✓ \overleftrightarrow{DE} $y = -\frac{1}{4}x + 2$

\overleftrightarrow{TT} $y = \frac{2}{5}x$

\overleftrightarrow{EA} $y = -2x + 3$

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

✓ \overleftrightarrow{NE} $y = \frac{2}{3}x + 1$

✓ \overleftrightarrow{VI} $y = \frac{2}{5}x - 5$

\overleftrightarrow{TH} $y = -\frac{3}{2}x + 2$

✓ \overleftrightarrow{OU} $y = -x + 3$

✓ \overleftrightarrow{TH} $y = -2x - 4$

✓ \overleftrightarrow{AS} $y = 2x - 3$

✓ \overleftrightarrow{GH} $y = -\frac{3}{2}x - 1$

✓ \overleftrightarrow{TI} $y = \frac{4}{3}x$

✓ \overleftrightarrow{HE} $y = 3x + 5$

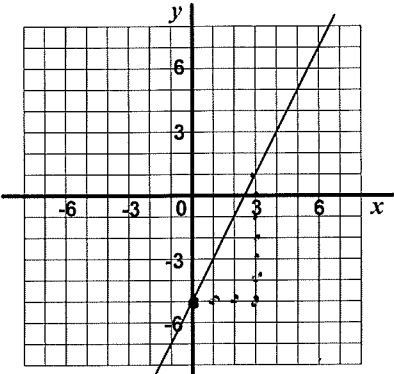
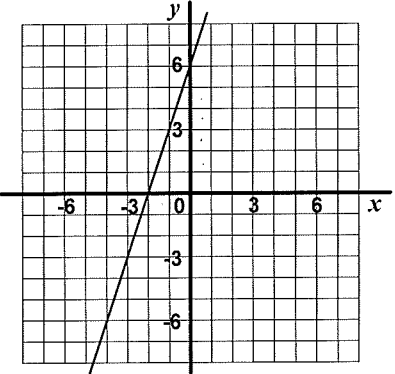
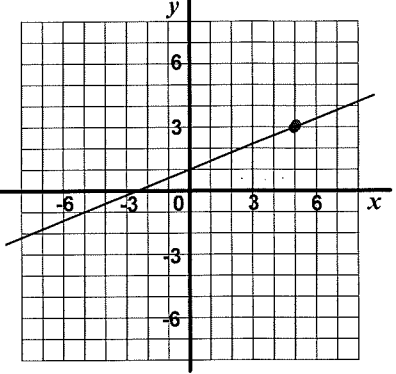
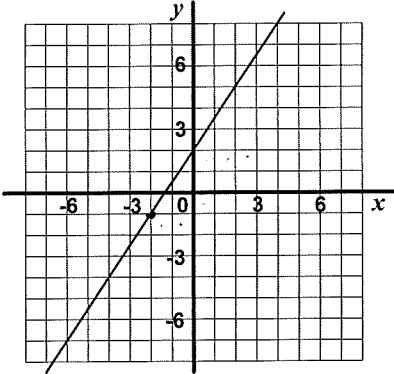
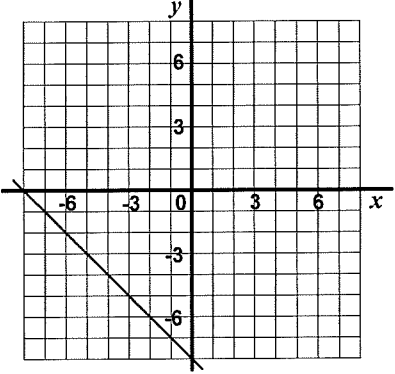
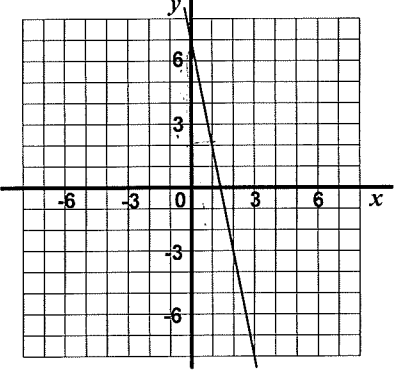
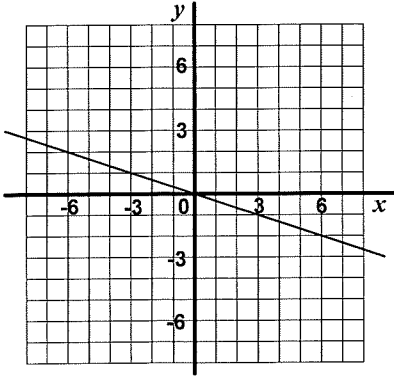
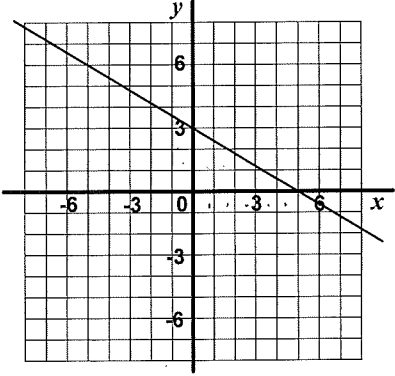
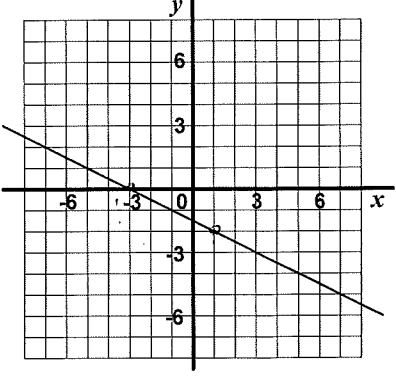
✓ \overleftrightarrow{TW} $y = -3$

\overleftrightarrow{SH} $y = \frac{2}{3}x + 5$

5	5	3	3	6	6	4	4	7	7	9	9	1	1	8	8	10	10	2	2
H	E	T	H	O	U	G	H	T	I	T	W	A	S	D	E	✓	I	N	E

Mathematics 9
 Finding Equations of Lines

Date: _____

<p>1.</p> 	<p>2.</p> 	<p>3.</p> 
<p>$m = 2$ $b = -5$</p>	<p>$m = 3$ $b = 6$</p>	<p>$m = \frac{2}{5}$ $b = 1$</p>
<p>Equation of line: $y = 2x - 5$</p>	<p>Equation of line: $y = 3x + 6$</p>	<p>Equation of line: $y = \frac{2}{5}x + 1$</p>
<p>4.</p> 	<p>5.</p> 	<p>6.</p> 
<p>$m = \frac{3}{2}$ $b = 2$</p>	<p>$m = -1$ $b = -8$</p>	<p>$m = -5$ $b = 7$</p>
<p>Equation of line: $y = \frac{3}{2}x + 2$</p>	<p>Equation of line: $y = -x - 8$</p>	<p>Equation of line: $y = -5x + 7$</p>
<p>7.</p> 	<p>8.</p> 	<p>9.</p> 
<p>$m = -\frac{1}{3}$ $b = 0$</p>	<p>$m = -\frac{3}{5}$ $b = 3$</p>	<p>$m = -\frac{1}{2}$ $b = -1.5/\frac{3}{2}$</p>
<p>Equation of line: $y = -\frac{1}{3}x$</p>	<p>Equation of line: $y = -\frac{3}{5}x + 3$</p>	<p>Equation of line: $y = -\frac{1}{2}x - \frac{3}{2}$</p>

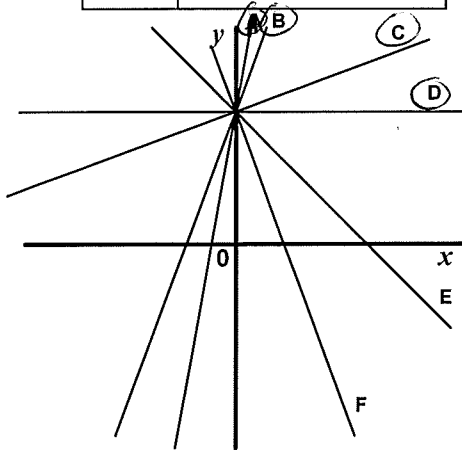
Mathematics 9
 Naming Equations of Lines

Date: _____

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

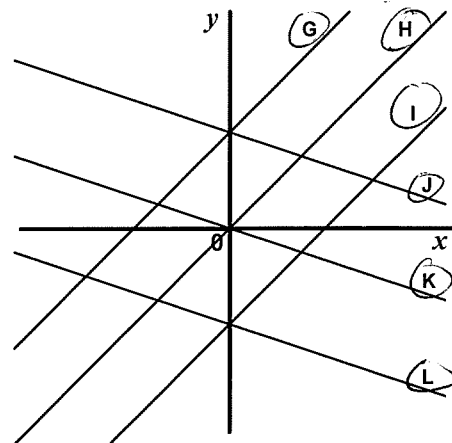
1.

i	E	$y = -x + 2$
ii	C	$y = \frac{1}{2}x + 2$
iii	F	$y = -2x + 2$
iv	B	$y = 2x + 2$
v	D	$y = 2$
vi	A	$y = 3x + 2$



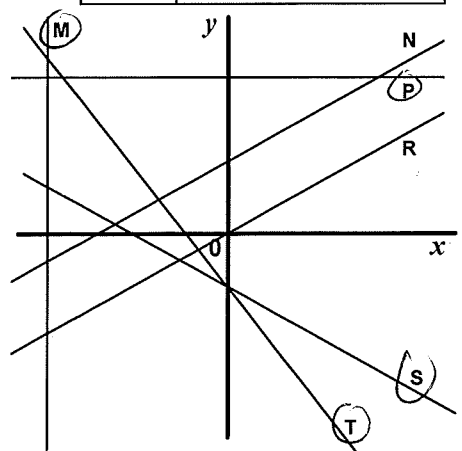
2.

i	I	$y = x - 4$
ii	L	$y = -\frac{1}{2}x - 4$
iii	G	$y = x + 4$
iv	J	$y = -\frac{1}{2}x + 4$
v	H	$y = x$
vi	K	$y = -\frac{1}{2}x$



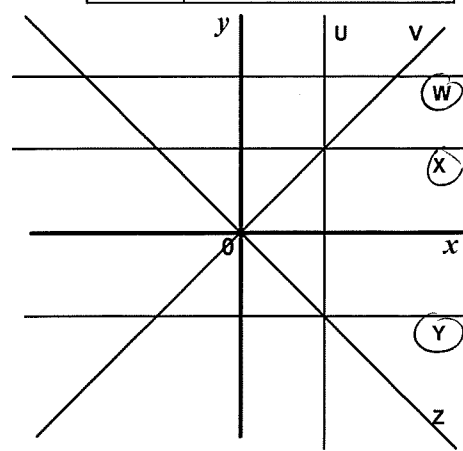
3.

i	N	$y = \frac{2}{3}x + \frac{3}{2}$
ii	S	$y = -\frac{2}{3}x - 1$
iii	R	$y = \frac{2}{3}x$
iv	M	$x = -3$
v	T	$y = -\frac{3}{2}x - 1$
vi	P	$y = 3$



4.

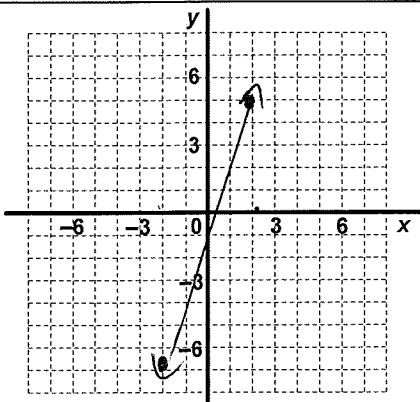
i	Y	$y = -2$
ii	Z	$y = -x$
iii	X	$y = 2$
iv	U	$x = 2$
v	W	$y = 4$
vi	V	$y = x$



Mathematics 9
Plot & Name the Line

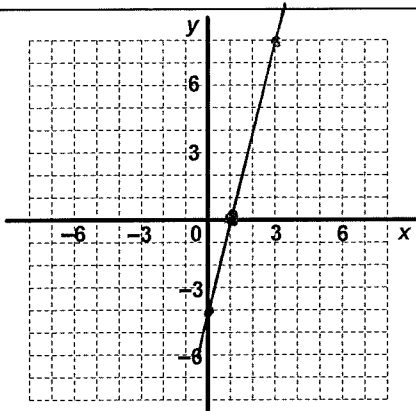
Date: _____

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



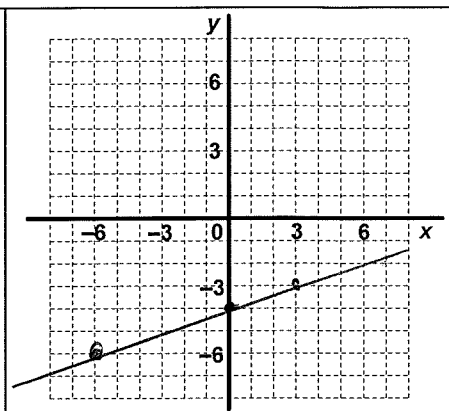
1. The line through the points (2,5) and (-2,-7).

$$y = 3x - 1$$



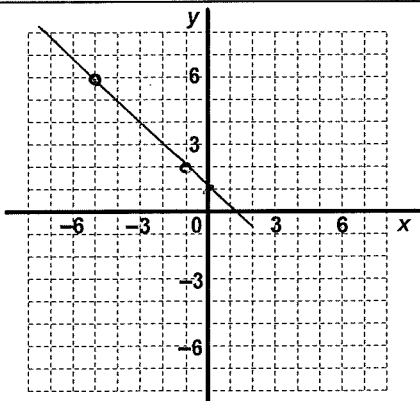
2. The line through the points (1,0) and (3,8).

$$y = 2x - 4$$



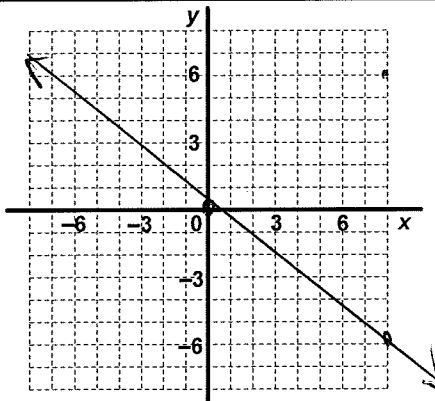
3. The line through the points (-6,-6) and (3,-3).

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



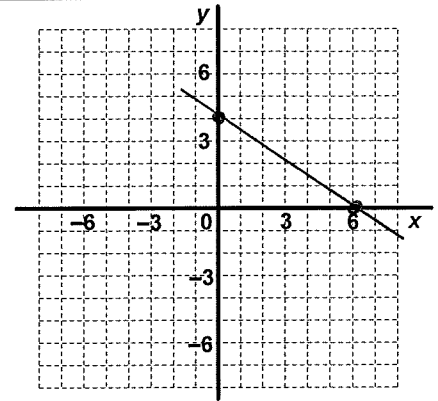
4. The line through the points (-5,6) and (-1,2).

$$y = -x + 1$$



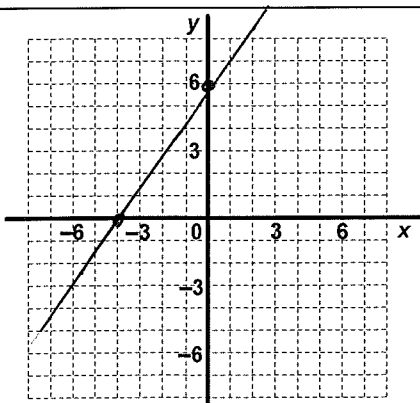
5. The line through the origin and the point (8,-6).

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



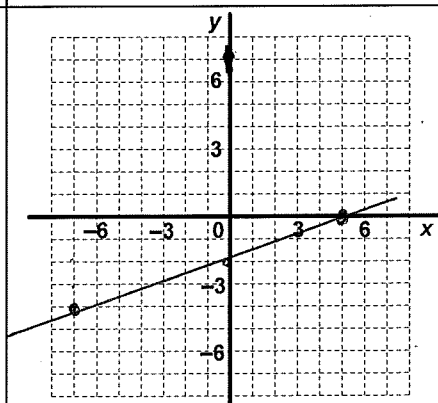
6. The line with x-intercept 6 and y-intercept 4.

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



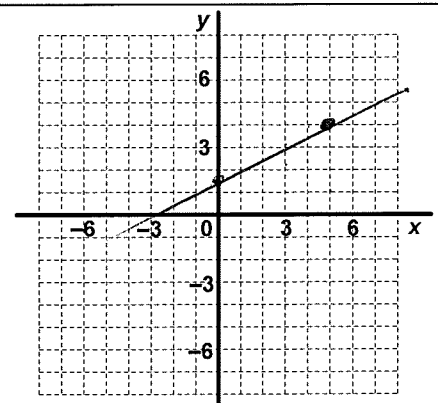
7. The line with x-intercept -4 and y-intercept 6.

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



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

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

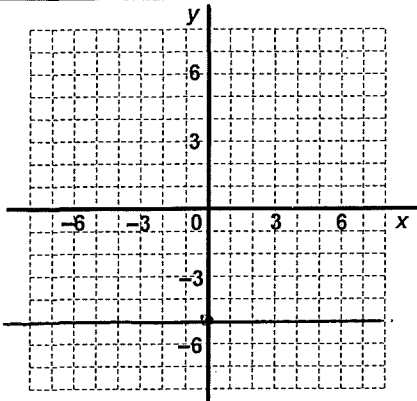


9. The line with y-intercept $\frac{3}{2}$ and through (5,4).

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

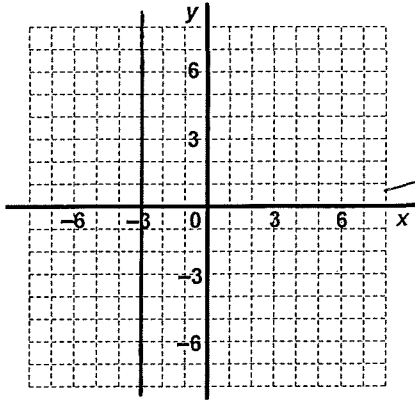
Mathematics 9
Plot & Name the Line

Date: _____



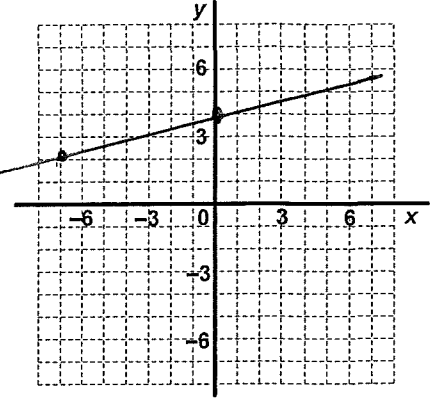
10. The line with y -intercept -5 and parallel to the x -axis.

$$y = -5$$



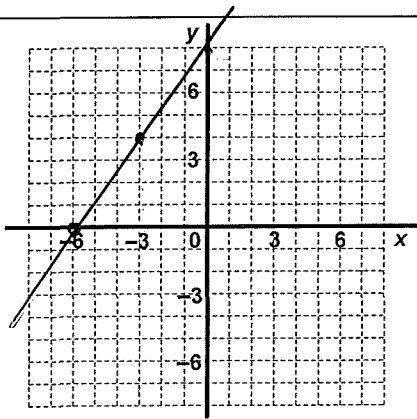
11. The line through the points $(-3, 5)$ and $(-3, -2)$.

$$x = -3$$



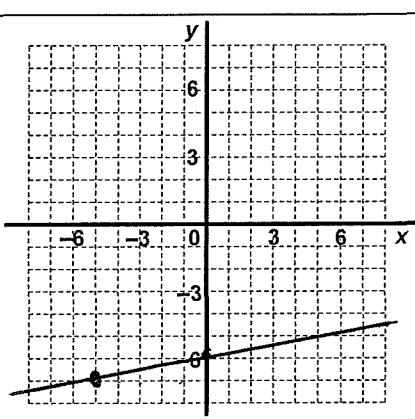
12. The line passing through the point $(-7, 2)$ with slope $\frac{2}{7}$.

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



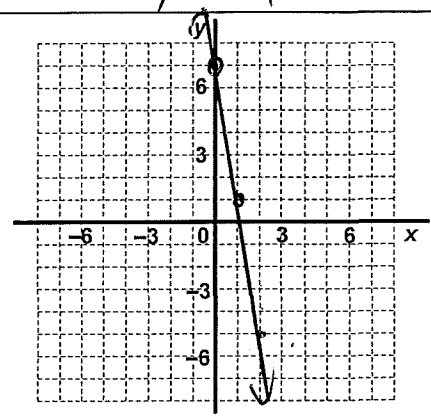
13. The line with slope $\frac{4}{3}$ and x -intercept -6 .

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



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

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



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

$$y = -6x + 7$$

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. $y = -6x + 7$