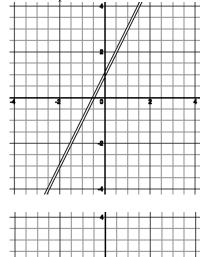
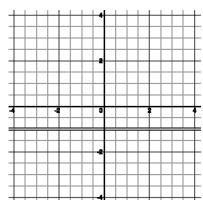
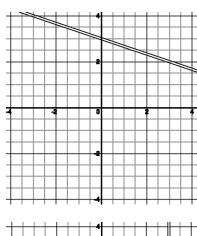
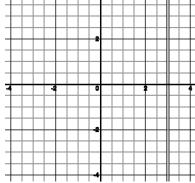
- 1. Where does the graph of y = -3x 18 intersect the x-axis?
 - A. (0, 6)
 - B. (0, -6)
 - C. (6, 0)
 - D. (-6, 0)
- 2. Tickets to a Movie cost \$5 for children and \$8 for adults. The equation 5x + 8y = 80 represents the number of children and adults who can see the movie with \$80. If no adults see the movie, how many children can see the movie with \$80?
- 3. Find the slope through the following:
 - (3, 7) and (-1, 4)
- (-3, 2) and (6, 2)
- a vertical line

4. Find the slope of the lines shown:









5. In 1996, there were 171 area codes in the US. In 2007, there were 215. Find the rate of change from 1996 to 2007.

6. Consider the table and use it to answer the questions below:

X	Y
0	0
1	2
2	4
3	6
4	A
5	10

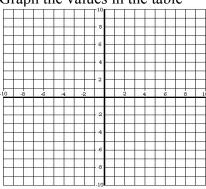
Find the value of A so the pattern is linear

Find the rate of change for the table

Find the x-intercept and y-intercept

State the equation of the line for the pattern shown in the table

Granh	the	values	in	the	table
Orapii	uic	varues	111	uic	laute



Find the y-value if x = 10

Find the x-value if y = -4

7. Consider the table and use it to answer the questions below:

X	Y
0	6
1	3
2	0
3	-3
4	-6
5	-9

Is the pattern is linear?

Find the rate of change for the table

Find the x-intercept and y-intercept

Which equation describes the line for the pattern shown in the table?

A.
$$y = 3x + 2$$

B.
$$y = -3x + 6$$

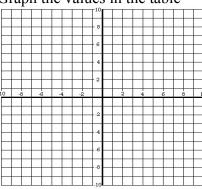
C.
$$y = 3x + 6$$

D.
$$y = -3x + 2$$

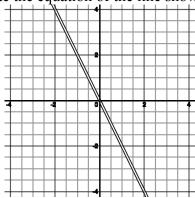
Find the y-value if x = 7

Find the x-value if y = -9

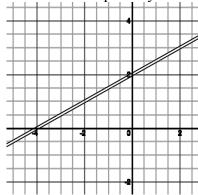
Graph the values in the table



- 8. Suppose x varies directly as x. If y = 26 then x = 8. Find x when y = 65.
- 9. State the equation of the line shown below in function notation:



10. State the x-intercept and y-intercept for the line shown below:



11. Are the following function linear?

$$f(x) = 2x + 6$$

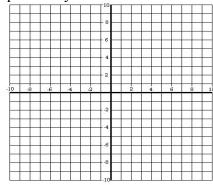
$$y = x/5$$

$$xy = -2$$

$$2/x + y = 9$$

$$xy = -2$$
 $2/x + y = 9$ $x^2 - y = 0$

12. graph 2x + y = 4



- 1. Where does the graph of y = -3x 18 intersect the x-axis?
 - A. (0, 6)
 - B. (0, -6)
 - C. (6, 0) D (-6, 0)
- $\begin{array}{c|cccc}
 0 &= & -3x & -18 \\
 + & & +18 \\
 \hline
 18 &= & -3x \\
 \hline
 -3 & & x &= & -6
 \end{array}$ (-6,0)

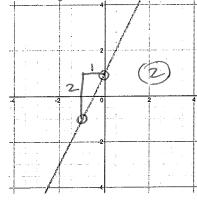
$$(-6,0)$$

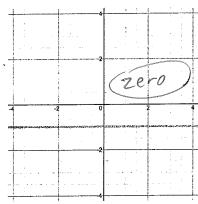
2. Tickets to a Movie cost \$5 for children and \$8 for adults. The equation 5x + 8y = 80 represents the number of children and adults who can see the movie with \$80. If no adults see the movie, how many children can see the movie with \$80?

$$\frac{5x}{5} = \frac{80}{5} \times = 16 \text{ children}$$

- 3. Find the slope through the following:
 - (3, 7) and (-1, 4)
- a vertical line

4. Find the slope of the lines shown:





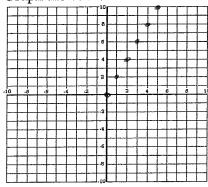
- undef
- 5. In 1996, there were 171 area codes in the US. In 2007, there were 215. Find the rate of change from 1996 to 2007.
- 11 2007 215 44 DY = 44 each year, & 4 new area added.

6. Consider the table and use it to answer the questions below:

0. 00101001 010 10010 0110 1	1 1
X	Y
0	0 57
1	2 +2
2	4
3	6
4	A
5	8 10

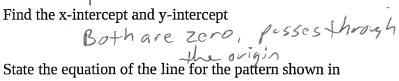
Graph the values in the table

XA



Find the value of A so the pattern is linear

Find the rate of change for the table



the table

Find the v-value if
$$x = 10$$

Find the y-value if
$$x = 10$$

 $y = 2(10)$ $y = 20$

Find the x-value if y = -4

7. Consider the table and use it to answer the questions below:

X	Y
D×+1 0	6 AY_3
1	3
2	0
3	-3
4	-6
5	-9

Is the pattern is linear?

Yes, consistent rate of change

Find the rate of change for the table

Find the x-intercept and y-intercept
$$\frac{\Delta y}{\Delta x} = \frac{-3}{3} = -3$$
Find the x-intercept and y-intercept

Which equation describes the line for the pattern shown in the table?

A.
$$y = 3x + 2$$

B)
$$y = -3x + 6$$

C.
$$y = 3x + 6$$

D.
$$y = -3x + 2$$

Find the y-value if
$$x = 7$$

$$y = -3(7) + 6$$

$$-21 + 6 = -15$$
Find the x-value if $y = -9$

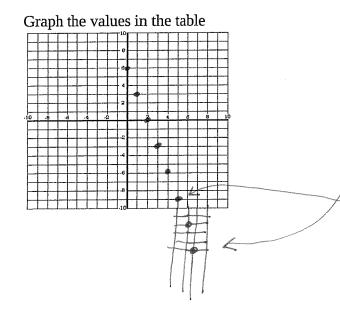
$$y = -15$$

Find the x-value if y = -9

$$-9 = -3x + 6$$

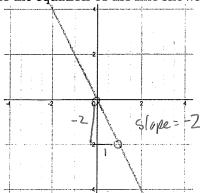
 $-6 = -6$
 $-15 = -3x$
 $-3 = -3$

$$\frac{-15 = -3 \times}{-3}$$



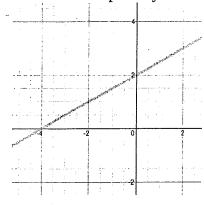
8. Suppose x varies directly as x. If y = 26 then x = 8. Find x when y = 65.

9. State the equation of the line shown below in function notation:



$$f(x) = -5x$$

10. State the x-intercept and y-intercept for the line shown below:



11. Are the following function linear?

$$f(x) = 2x + 6$$

$$xy = -$$

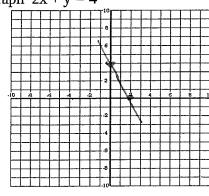
$$xy = -2 \qquad 2/x + y = 9$$

$$\mathcal{N}\mathcal{O}$$

$$x^2 - y = 0$$

$$NO$$

12. graph 2x + y = 4



$$2x = 4$$

$$Y-int:4$$

$$2x = 4$$

$$2x = 4$$