

# Linear Relations Review Worksheet

1. What is the general form of the slope-intercept equation? What do the letters mean?
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2. For a table of values like this,

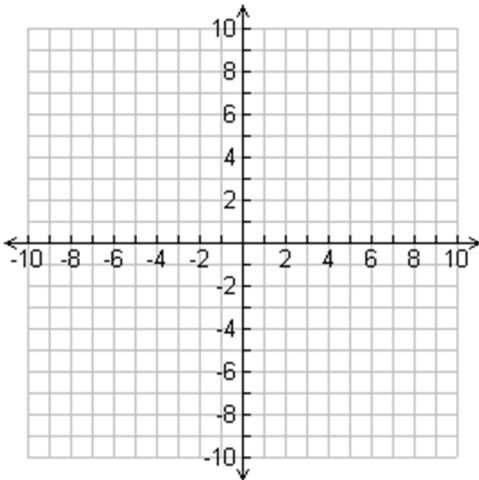
<i>Time</i>	<i>Distance</i>
1	45
2	90

Distance would be on the \_\_\_\_\_ axis and Time would be on the \_\_\_\_\_ axis.

3. In the equation  $y = -2x + 5$ , identify the variable \_\_\_\_\_, the slope \_\_\_\_\_, and the y-intercept \_\_\_\_\_.
4. Graph the following tables of values on the graphs below. Label the x and y axis.

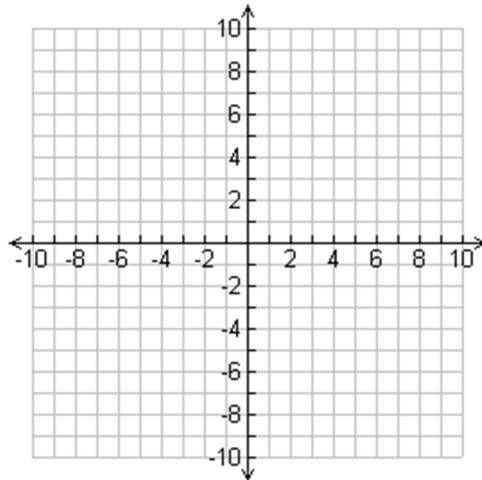
a.

<i>x</i>	<i>y</i>
1	3
2	4.5
3	6
4	7.5

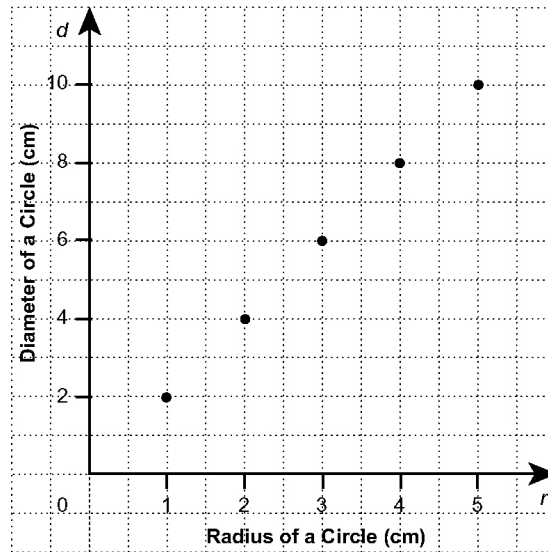


b.

<i>x</i>	3	4	5	6
<i>y</i>	-1	-3	-5	-7



5. Use the following graph to answer the questions below:



a. Make a table of values:


b. What is the diameter of a circle with a radius of  $8\text{cm}$ ?

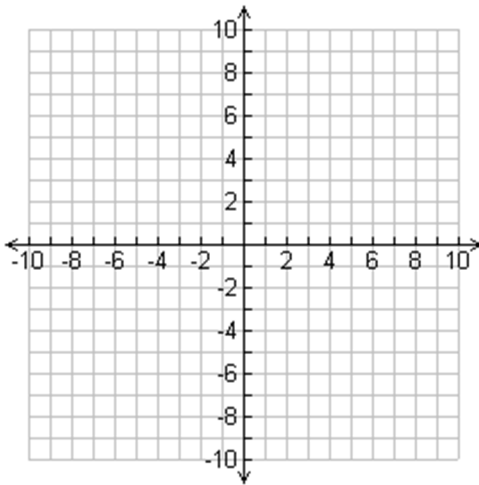
c. What is the radius of a circle with a diameter of  $22\text{cm}$ ?

d. Is it reasonable to include a point on the graph for  $r = 4.5\text{cm}$ ?

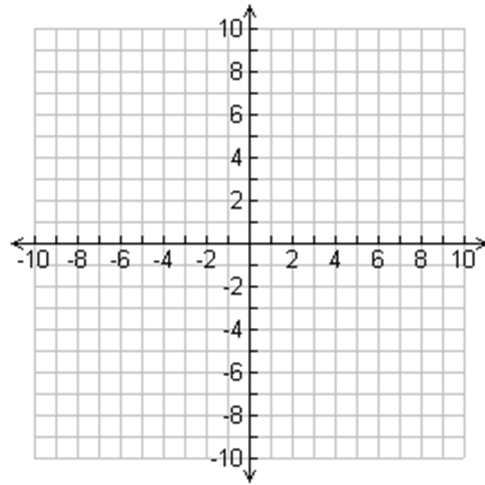
e. What is the equation for the linear relation?

6. Graph the following by making a table of values from the equations.  
Label the x and y axis.

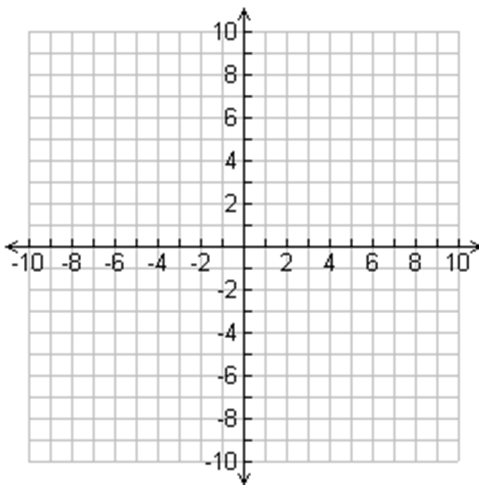
a.  $y = 2x + 1$



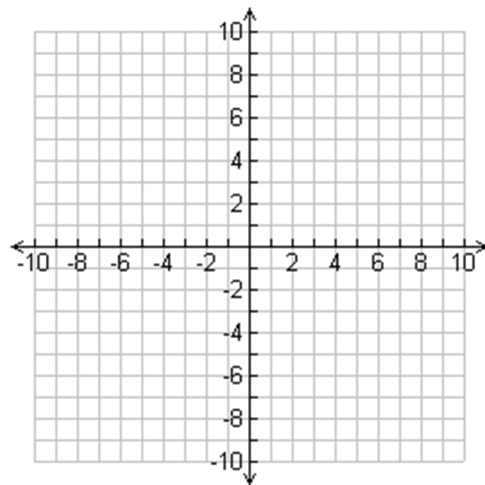
b.  $y = \frac{1}{2}x$



c.  $y = -3x + 2$



b.  $y = -x - 4$



7. Using table of values below, answer the following:

$x$	$y$
0	0
1	3
2	6
3	9

- What is the pattern shown?
- What is the equation for the line? *hint:  $x$  is used to find  $y$ , so our equations start  $y =$*

8. Using table of values below, answer the following:

$x$	$y$
0	1
1	3
2	5
3	7

- What is the pattern shown?
- What is the equation for the line?

9. Using table of values below, answer the following:

$x$	$y$
0	5
1	10
2	15
3	20

- What is the pattern shown?
- What is the equation for the line?