**Function Tables**

Directions:

Translate each statement into a mathematical equation, and then complete the function table:

1. *y* is equal to two more than the product of *x* and 3.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

2. *y* is equal to three less than the product of 2 and *x*.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| x | Y |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |

3. *y* is equal to the quotient of *x* and 2.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 2 |  |
| 4 |  |
| 6 |  |

4. *y* is equal to two less than the sum of 2 and *x*.

Mathematical translation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

5. *y* is equal to one more than the product of 2 and *x*.

Mathematical translation:

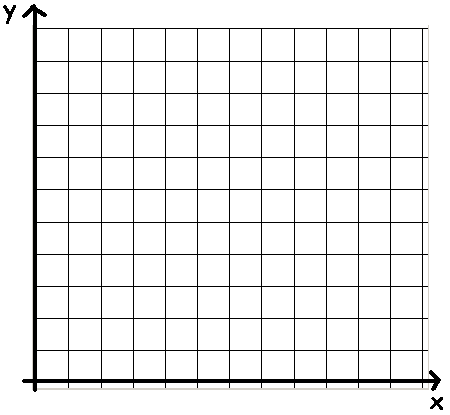
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values:

|  |  |
| --- | --- |
| *x* | Y |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

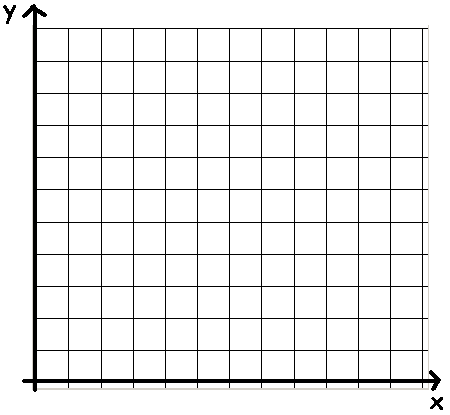
For each of the next problems match the line with the equation.

1.



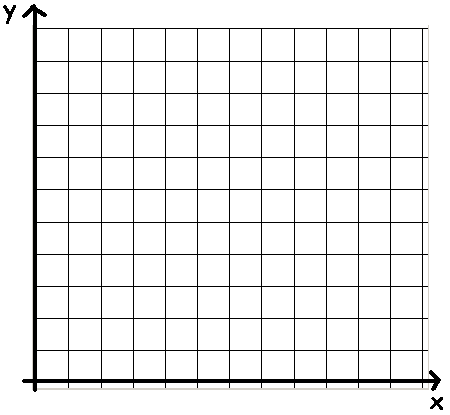
A. y = 2x + 2 B. y = 3x C. y = 4x – 2 D. y = x + 4

2.



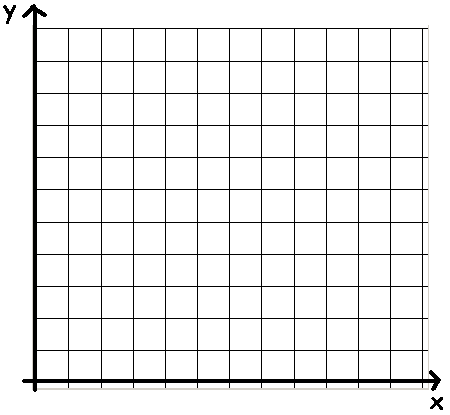
A. y = x + 2 B. y = 2x C. y = 6x – 10 D. y = 5x

3.



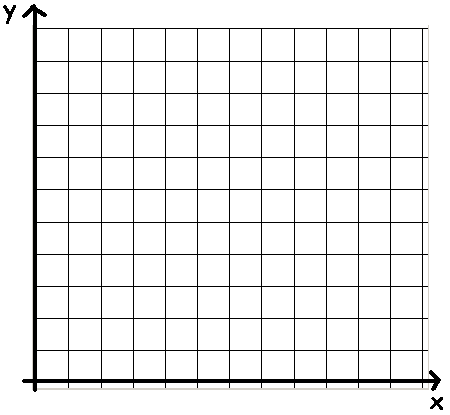
A. B. C. D.

4.



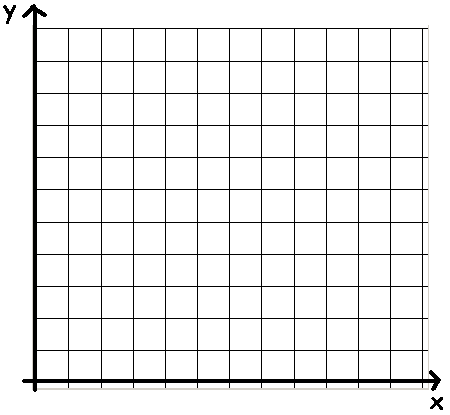
A. y = 2x B. y = 3x - 4 C. y = x + 2 D. y = x

5.



A. B. C. D.

6



A. y = 4x - 3 B. y = 3x C. y = 2x + 1 D. y = x – 3

**Activity: Amusement Park Problem**

An amusement park charges $1.50 per ride and an additional $10 to get into the park.

Let x = the number of rides you ride and y = the total cost.

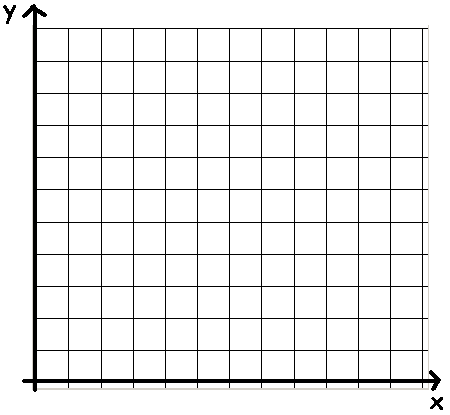
Write an equation for this situation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now create a table of values with at least **four** x and y values using this equation:

|  |  |
| --- | --- |
| *x* | *y* |
|  |  |
|  |  |
|  |  |
|  |  |

Graph the points above. What relationship is there between x and y?



**Activity: Car Wash Problem**

**Jake is volunteering at a car wash to help raise money for his school. They are charging $5.00 per car.**

Let *x* = the number of cars and *y* = the amount of money raised

Write an equation from the information above.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the table of values below using your equation.

|  |  |
| --- | --- |
| x | *y* |
| 0 |  |
| 1 |  |
| 2 |  |
| 3 |  |

Use your points to graph your equation. What is the relationship between *x* and *y*?

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

