**Complete** the X-Y charts for each equation. **Plot** the points and **graph** **two** lines, or use the slope and y-intercept to graph the line.

1. y= 2 x -1

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

 y=x+1

|  |  |
| --- | --- |
| **x** | **y** |
|  0 |  |
|  2 |  |
|   8 |   |

At what point do the lines intersect?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. 3.

What is the solution?\_\_\_\_\_\_\_\_\_\_\_\_\_ What is the solution?\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. What kind of lines will have one solution?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. 1,245 6. 48 7. 567 8. ½ + ½ =

 -647 x24 +258

9. Austin babysits for his neighbor. He gets paid $4 an hour. Write an equation to calculate his total pay for one week if he works up to 15 hours. Define the two variables. Create a graph showing his total pay for hours worked.

a. What are your variables?

 \_\_=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Write an equation using both variables and the information given in the problem.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_=\_\_\_\_

c. Make an input/output chart for your two variables.

 equation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. Graph your data.

