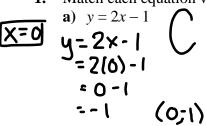
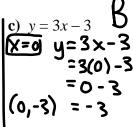
## 4.4: Matching Equations and Graphs Worksheet

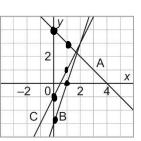
1. Match each equation with a graph on this grid.

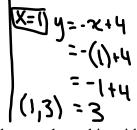


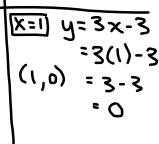
| a graph on this  
|b) 
$$y = -x + 4$$
  
|  $x = 0$  |  $y = -x + 4$   
|  $x = 0 + 4$ 

(0,4)



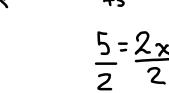


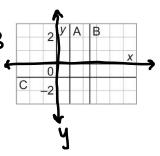




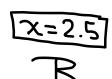
2. Match each equation with a graph on this grid.

$$\mathbf{a)} \quad y = -1$$

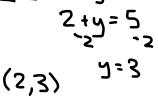




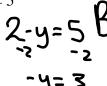




- 3. Match each equation with a graph on this grid. Justify your answers.
- a) x+y=5x=2 x+y=5

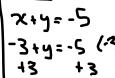


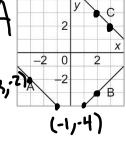




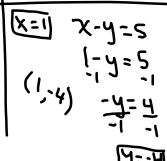


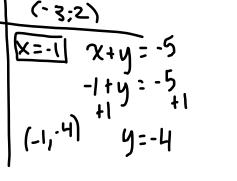






X=3 X+y=5 3+y=5 3 3+y=5 3 4=2





**4.** Which equation describes this graph? Justify your answers.

4. Which equation de 
$$x, y$$
 a)  $y = x + 2$   $y = x + 2$   $y = x + 2$   $y = 1 + 2$   $y = 3 = 1 + 2$ 

the second point.

$$(-2,0)$$
  $y=X+2$   
 $0 = -2+2$   
 $0 = 0$ 

So the equation matches the graph.



nswers.

(i,'3)

$$y = x - 2$$
 $3 = 1 - 2$ 
 $3 = 1 - 2$ 
 $3 = 1 - 2$ 

Not match our graph.

5. Which equation describes this graph? Justify your answers.

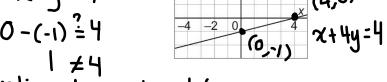
$$x, y^{a)} x-y=4$$
 $(4,0) x-y=4$ 
 $4-0 = 4$ 
 $4=4$ 

now check a second point.

$$x.y$$
  $b) x-4y=4$ 
 $(4,0) x-4y=4$ 
 $4-4(0) \frac{?}{=} 4$ 
 $4-0 \frac{?}{=} 4$ 
 $4=4$ 

Now check a second point.

**c)** 
$$4x - y = 1$$



This equation does not match the graph.

So this equation matches the graph.