

**Chapter 4
Form B**

1. Determine if the ordered pair $(-2, 1)$ is a solution of $2x - y = -3$.

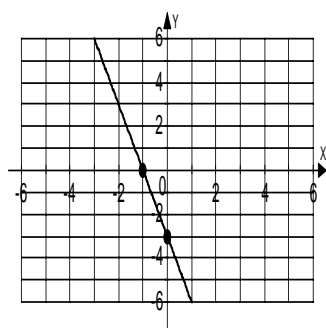
2. Complete the table of values for $y = \frac{1}{2}x + 4$.

3. Graph the equation $y = \frac{1}{2}x + 4$ using the ordered pairs from problem 2.

4. Graph $y = -x + 2$.

5. For the graph shown, identify the:

- (a) x -intercept
- (b) y -intercept.

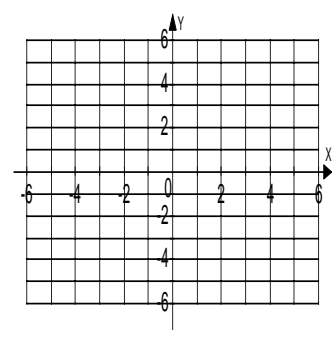


1. _____

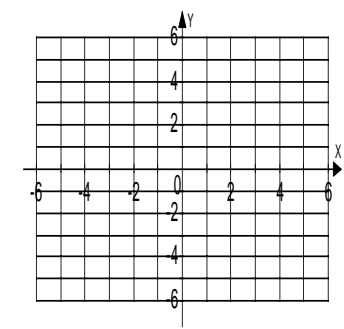
2.

| x | $y = \frac{1}{2}x + 4$ | (x, y) |
|-----|------------------------|----------|
| -2 | | |
| 0 | | |
| 2 | | |

3.



4.



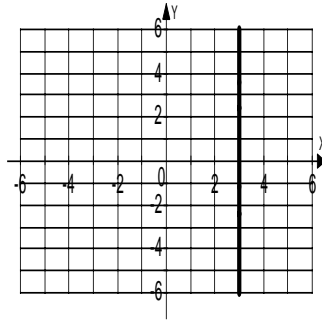
5a. _____

b. _____

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6. For the graph shown, identify the:
(a) x -intercept
(b) y -intercept.



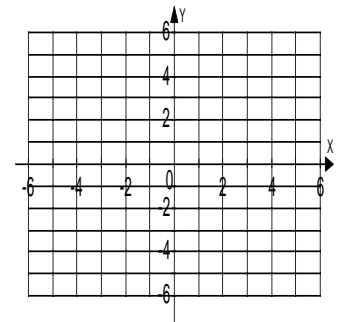
- 6a. _____
b. _____

7. For the equation $2x + 4y = 8$, identify the:
(a) x -intercept
(b) y -intercept.

- 7a. _____
b. _____

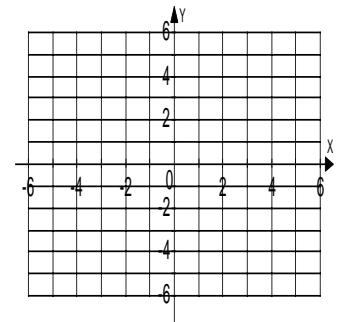
8. Graph the equation $4x + 2y = 8$ using the x and y - intercepts found in problem 7.

8.



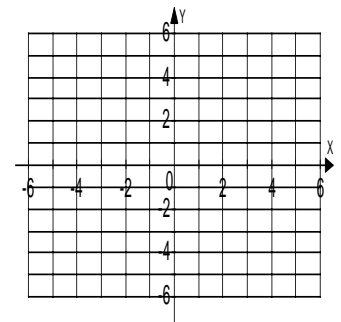
9. Graph the equation $2x - 3y = 6$.

9.



10. Graph the equation $y = 3$.

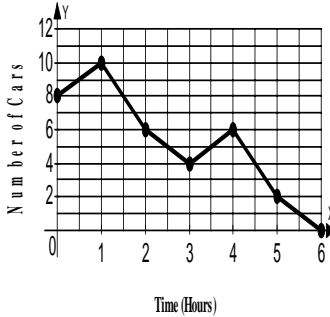
10.



Name _____

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The following graph shows the number of cars, y , in a small parking lot x hours after noon.



Use the graph for problems 11 – 12.

11. (a) At what time were the maximum number of cars in the lot? 11a. _____

(b) What was the maximum number of cars? b. _____

12. (a) What is the x – intercept? 12a. _____

(b) In terms of time and number of cars, interpret the meaning of this intercept. b. _____

For problems 13 – 14, calculate the slope of the line passing through the given points.

13. $(7, -1)$ and $(-4, -2)$ 13. _____

14. $(-4, 3)$ and $(-4, 2)$ 14. _____

15. Determine whether the lines through each pair of points are parallel. 15. _____

$(0, -1)$ and $(1, 2)$

$(2, -1)$ and $(1, 1)$

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Date _____

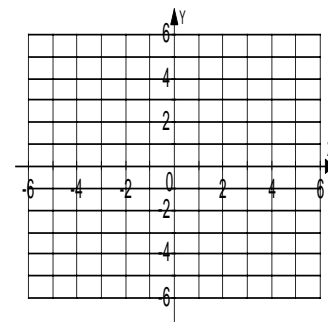
16. For the equation $8x - 3y = 6$, find the
(a) slope
(b) y-intercept.

16a. _____

b. _____

17. Use the slope and y-intercept found in problem 16 and graph $8x - 3y = 6$.

17.



18. For the line with slope -2 and passing through $(1, -2)$ write the equation of the line in:
(a) point-slope form.
(b) slope-intercept form.

18a. _____

b. _____

19. The equation of a line is given as $y = -\frac{2}{3}x + 5$. Find the slope that is (a) parallel to the line with the given equation and (b) perpendicular to the line with the given equation.

19a. _____

b. _____

20. Find the equation of the line in (a) point-slope form and (b) slope-intercept form that passes through $(2, 6)$ and is parallel to $3x + 2y = 8$

20a. _____

b. _____