

Name:

Date:

Period:

Show all your work on a separate piece of paper.

1. For **each** part, state whether the pair of values for x and y satisfies the equation $2x - y = 6$.

a. $x = 4, y = 2$

b. $x = 0, y = 6$

c. $x = 4, y = -2$

For 2 – 5, state in each case whether the point whose coordinates are given is on the graph of the given equation.

2. $x + y = 7; (4, 3)$

3. $2y + x = 7; (1, 3)$

4. $3x - 2y = 8; (2, 1)$

5. $2y = 3x - 5; (-1, -4)$

In 6 – 17, find in each case the number that can replace k so that the resulting ordered number pair will be on the graph of the given equation.

6. $x + 2y = 5; (k, 2)$

7. $3x + 2y = 22; (k, 5)$

8. $x + 3y = 10; (13, k)$

9. $x - y = 0; (k, k)$

10. $3x + 2y = 10; (2, k)$

11. $2y - 5 = 3x; (k, 4)$

12. $y = 4x + 1; (k, 9)$

13. $3x + 2y = -6; (k, -3)$

14. $x - 3y = 5; (-1, k)$

15. $y = 3x - 5; (k, -11)$

16. $3x + ky = 21; (2, 3)$

17. $2x + ky = -6; (1, -4)$

In 18 – 23, solve each equation for y in terms of x .

18. $3x + y = -1$

19. $4x - y = 6$

20. $2y = 6x$

21. $12x = \frac{3}{2}y$

22. $4x + 2y = 8$

23. $6x - 3y = 5$

In 24 – 28, write each verbal sentence as an equation.

24. The ordinate of a point is twice the abscissa.

25. The ordinate of a point is 2 more than the abscissa.

26. The sum of the ordinate and the abscissa of a point is 6.

27. The difference of the ordinate and the abscissa of a point is 1.

28. Twice the ordinate of a point decreased by 3 times the abscissa is 6.
