

EXERCISES

Match each equation to its equivalent equation in slope-intercept form.

1. $y + 6 = 3(x + 2)$

A. $y = 4x - 2$

2. $y = \frac{1}{2}(x + 8) - 2$

B. $y = \frac{1}{2}x + 2$

3. $y + 1 = 1(x - 3)$

C. $y = 3x$

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

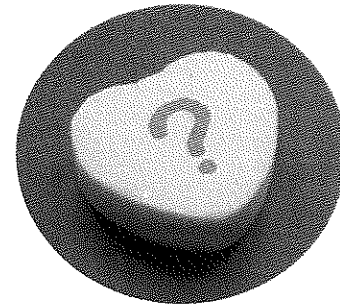
D. $y = -\frac{1}{2}x + 2$

5. $2x - 4y = -4$

E. $y = x - 4$

6. $2x + 4y = 8$

F. $y = \frac{1}{2}x + 1$



Convert each equation to slope-intercept form.

7. $y + 3 = 4(x + 6)$

8. $6x + 2y = 12$

9. $y = -2 + \frac{1}{3}(x + 9)$

10. $2x - 5y = -15$

11. $-x - 2y = 2$

12. $y - 1 = -2(x - 5)$

13. $y = \frac{3}{4}(x + 12) - 2$

14. $-7x + y = 6$

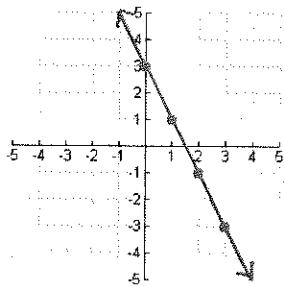
15. $y + 15 = 4(x + 6)$

One of the two equations listed in each problem matches the graph. Determine which equation is represented by the graph. Explain how you know your answer is correct.

16. $y - 1 = 2(x + 1)$

OR

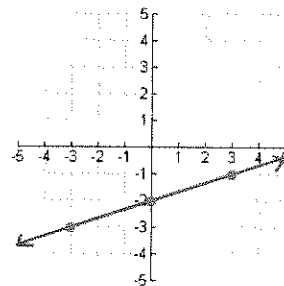
$6x + 3y = 9$



17. $6x + 2y = -4$

OR

$y = \frac{1}{3}(x - 9) + 1$



REVIEW

Write an equation in slope-intercept form that satisfies the information given about the line.

18. has a slope of $\frac{5}{2}$ and a y -intercept of 3

19. has a slope of -3 and goes through the point $(3, 1)$

20. has a slope of 5 and goes through the origin

21. goes through the points $(6, 1)$ and $(10, -1)$

22. goes through the points $(-2, 5)$ and $(4, 11)$

23. has a slope of 0 and a y -intercept of -5

24. goes through the points $(4, 1)$ and $(4, 9)$

25. goes through the points $(1, -3)$ and $(2, -6)$