

UNIT 3 DAY 29
BOOK WORK

Page 142 #15-20 all, 23, 25, 26, 29, 30

In Exercises 15–22, find the slope and the y-intercept of the graph of the linear equation. (See Example 3.)

15. $y = -3x + 2$

16. $y = 4x - 7$

17. $y = 6x$

18. $y = -1$

19. $-2x + y = 4$

20. $x + y = -6$

21. $-5x = 8 - y$

22. $0 = 1 - 2y + 14x$

ERROR ANALYSIS In Exercises 23 and 24, describe and correct the error in finding the slope and the y-intercept of the graph of the equation.

23.



$$x = -4y$$

The slope is -4 , and the y-intercept is 0 .

24.



$$y = 3x - 6$$

The slope is 3 , and the y-intercept is 6 .

In Exercises 25–32, graph the linear equation. Identify the x-intercept. (See Example 4.)

25. $y = -x + 7$

26. $y = \frac{1}{2}x + 3$

27. $y = 2x$

28. $y = -x$

29. $3x + y = -1$

30. $x + 4y = 8$

31. $-y + 5x = 0$

32. $2x - y + 6 = 0$