

1. $(-5, -18)$

2. $(-5, 14)$

3. $(-5, -40)$

4. -1

5. -2

6. -3

7. -4

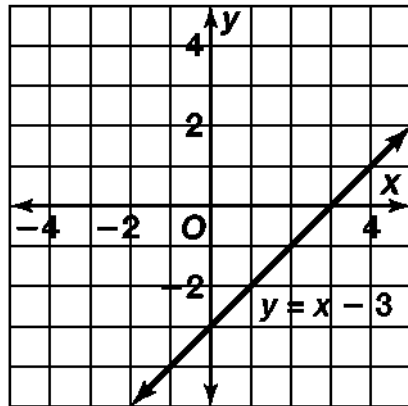
8. -5

9. -6

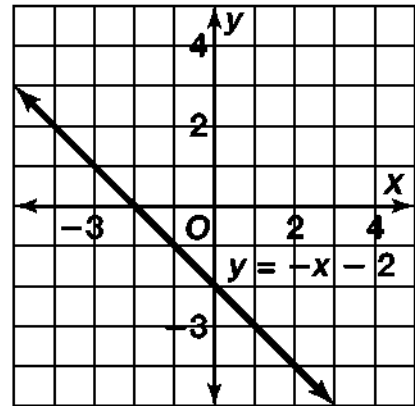
10. about 688 km

11. about 1,064 km

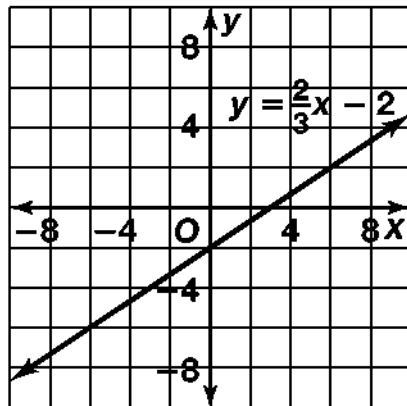
12. yes



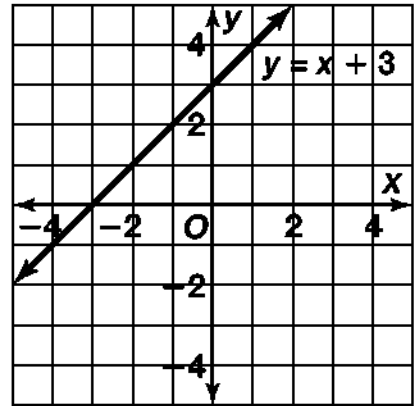
13. yes



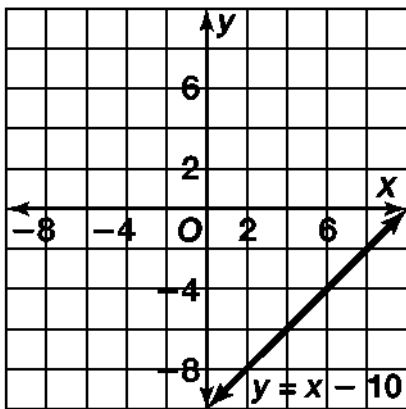
14. yes



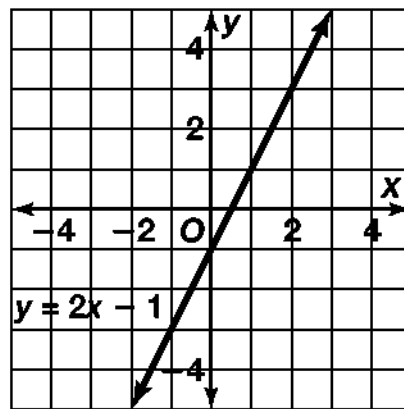
15. yes



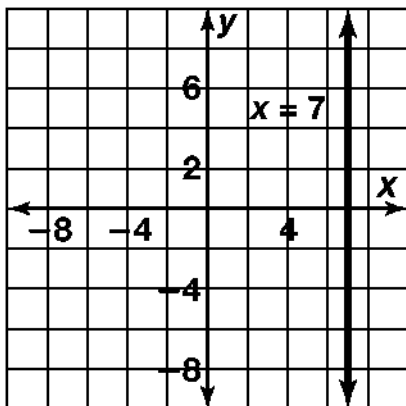
16. yes



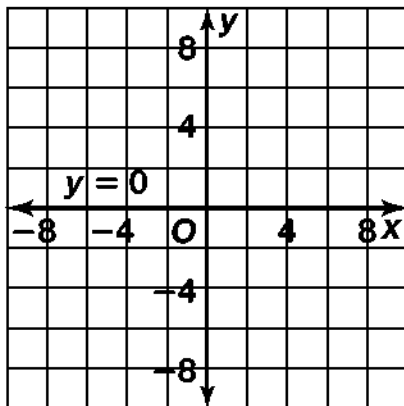
17. yes



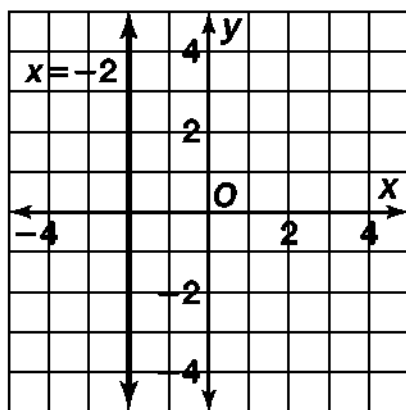
18. no



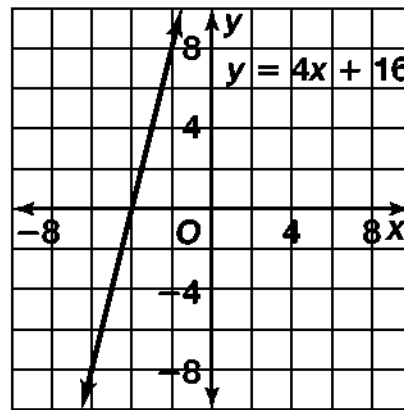
19. yes



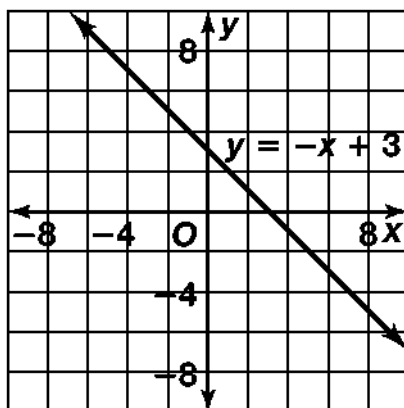
20. 20



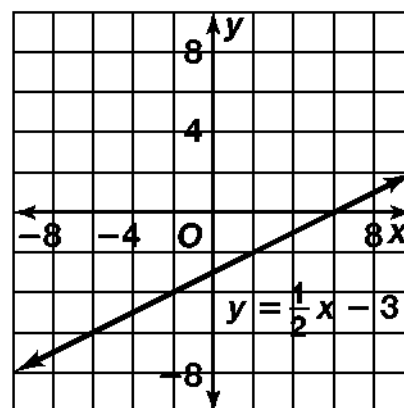
21. $y = 4x + 16$



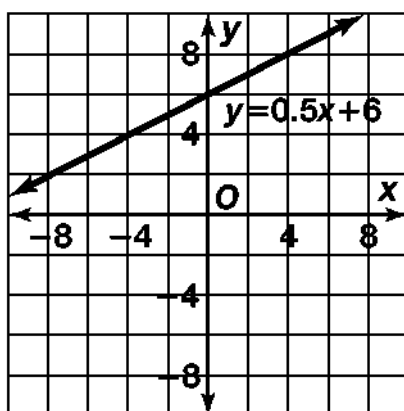
22. $y = -x + 3$



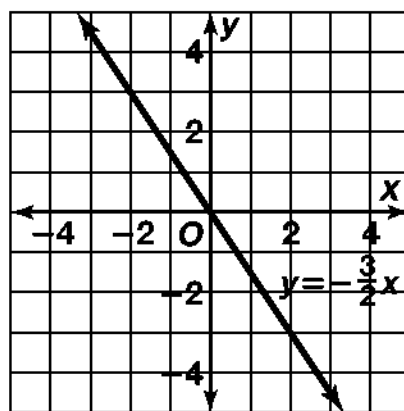
23. $y = \frac{1}{2}x - 3$



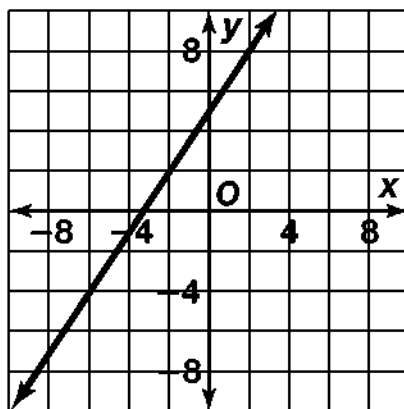
24. $y = 0.5x + 6$



25. $y = -\frac{3}{2}x$



26. $y = \frac{3}{2}x + 5$



27. Answers may vary. Sample: If you can solve the equation for y , you have a function.

28. yes; $12 - 6 = 6$

29. no; $-12 + 6 \neq 6$

30. no; $0 - 6 \neq 6$

31. no; $8 - 0 \neq 6$

32. $(-2, 13), (1, 4), (4, -5)$

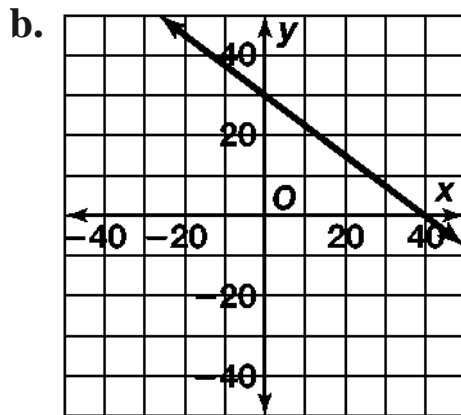
33. $(-2, 5\frac{1}{2}), (1, 6\frac{1}{4}), (4, 7)$

34. $(-2, -7\frac{1}{5}), (1, -5\frac{2}{5}), (4, -3\frac{3}{5})$

35. The student forgot to divide $-3x$ by 4.

36. 1.8 h

37. a. $(0, 30)$ and $(40, 0)$; you burn 360 cal by swimming only the butterfly stroke for 30 min or only the backstroke for 40 min.



c. $(0, 30)$ is the point at which the graph and the y-axis intercept each other; $(40, 0)$ is the point at which the graph and the x-axis intercept each other.

d. about 27 min