

SECTION 6.5

1. -5 3. $\frac{5}{2}$ 5. -1 7. 8 9. -3 11. -4 13. The equation has no solution. 15. -1 and $-\frac{5}{3}$
17. $-\frac{1}{3}$ and 5 19. $-\frac{11}{3}$ 21. The equation has no solution. 23. $P_2 = \frac{P_1 V_1 T_2}{T_1 V_2}$ 25. $b = \frac{af}{a-f}$ 27. It would take the experienced bricklayer 14 h to do the job. 29. It would have taken the slower machine 160 min to send the fax.
31. With all three machines working, it would take 4 h to fill the bottles. 33. With both pipes open, it would take 90 min to empty the tank. 35. With both clowns working, it would take 120 min to have 76 balloons. 37. With both clerks working, it would take 2400 s to address the envelopes. 39. The rate of the runner is 8 mph. 41. The tortoise was running at 0.4 ft/s. The hare was running at 72 ft/s. 43. The rate of the cyclist is 10 mph. 45. The rate of the current is 2 mph. 47. The rate of the wind is 75 mph. 49. The rate of the wind is 60.80 mph. 51. The rate of the current is 2 mph.
- 53a. 3 b. 0 and y c. $3y$ and $\frac{3}{2}y$ 55. The bus usually travels 60 mph.