SECTION 12.2

1. $a_{15} = 141$ **3.** $a_{15} = 50$ **5.** $a_{31} = 17$ **7.** $a_{12} = 12\frac{1}{2}$ **9.** $a_{40} = -109$ **11.** $a_n = 3n - 2$ **13.** $a_n = -3n + 6$

15. $a_n = -2.5n + 9.5$ **17.** 20   **19.** 20   **21.** 13   **23.** 20   **25.** 2500   **27.** -760 **29.** 189   **31.** 345

33. $\frac{187}{2}$ **35.** -180 **37.** It will take 11 weeks.   **39.** The object will fall 144 ft during the fifth second.

41. The apprentice will receive $3600 during the eighth month. The apprentice will receive $20,400 for the eight months.

43. log 8