

## SECTION 12.3

1.  $a_9 = 131,072$     3.  $a_7 = \frac{128}{243}$     5.  $a_{10} = 32$     7.  $a_2 = 6, a_3 = 4$     9.  $a_2 = -2, a_3 = \frac{4}{3}$     11.  $a_2 = 12, a_3 = -48$
13. 2186    15.  $\frac{2343}{64}$     17. 62    19.  $\frac{121}{243}$     21. 9    23.  $\frac{7}{9}$     25.  $\frac{8}{9}$     27.  $\frac{2}{9}$     29.  $\frac{5}{11}$     31.  $\frac{1}{6}$     33. The amount of radioactive material is 50 mg.
35. The ball will bounce 1.8 ft.    37. The total amount earned is \$10,737,418.23.    39. 27