. Find the missing term in the geometric sequence: $-5, 10, -20, 40, \_\_\_$.

Ⓐ -80 Ⓑ -35 Ⓒ 80 Ⓓ 100

. What is the tenth term in the geometric sequence: $144, 72, 36, 18, \ldots$?

Ⓐ 0 Ⓑ $\frac{9}{64}$ Ⓒ $\frac{9}{32}$ Ⓓ $\frac{9}{16}$

Write an equation for the nth term of each geometric sequence.

39. $36, 12, 4, \ldots$ 40. $64, 16, 4, \ldots$

. Find a_7 for the geometric sequence $729, -243, 81, \ldots$.

Find the sum of each infinite geometric series, if it exists. *(Lesson 11-5)*

44. $9 + 6 + 4 + \ldots$ 45. $\frac{1}{8} + \frac{1}{32} + \frac{1}{128} + \ldots$ 46. $4 - \frac{8}{3} + \frac{16}{9} + \ldots$

Find the sum of each geometric series. *(Lesson 11-4)*

47. $2 - 10 + 50 - \ldots$ to 6 terms   48. $3 + 1 + \frac{1}{3} + \ldots$ to 7 terms