

Representing repeating decimals as Geometric Series

**Using a Geometric Series** In Exercises 35–40, (a) write the repeating decimal as a geometric series, and (b) write its sum as the ratio of two integers.

35.  $0.\overline{4}$

36.  $0.\overline{36}$

37.  $0.\overline{81}$

38.  $0.\overline{01}$

39.  $0.\overline{075}$

40.  $0.2\overline{15}$

41.  $2.535\overline{35}$

42.  $12.542\overline{42}$