Determine the 10th number in the sequence and the sum from the first number to the 10th number for each of the following series.

1, 2, 3, 4, …

2, 4, 8, 16, …

1, 0.5, 0, …

3, -0.3, 0.03, ….

$1, \dfrac{1}{2}, \dfrac{1}{4}, \ldots$

$1, \dfrac{1}{10}, \dfrac{1}{100}, \ldots$