1. If and , the sum of the first five terms is (A) 17 (B) 30 (C) 42 (D) 45 (E) 68

2. If and find . (A) 2.623 (B) 2.635 (C) 2.673 (D) 2.799 (E) 3.323

3. If the repeating decimal is written as a fraction in lowest terms, the sum of the numerator and denominator is (A) 16 (B) 47 (C) 245 (D) 334 (E) 1237

4. The first three terms of a geometric sequence are The fourth term is (A) (B) (C) (D) (E)

5. By how much does the arithmetic mean between 1 and 25 exceed the positive geometric mean between 1 and 25? (A) 5 (B) about 7.1 (C) 8 (D) 12.9 (E) 18

6. In a geometric series and . What is r ? (A) (B) (C) (D) (E)