Practice worksheet | Sequences and series

Finite geometric sums

Name: _____ Date: _____

6 questions | 13 marks

1. Find the sum of eight terms of $5, 10, 20, \ldots$. [2 marks]

2. Find $16 + 8 + 4 + 2 + 1 + \frac{1}{2}$. [2 marks]

3. Find the seven-term sum when $a = 4, r = 1$. [2 marks]

4. Find $2-6+18-54+162$. [2 marks]

5. For $a=7, r=2$, find the least n with $S_n > 1000$. [2 marks]

6. Find the balance immediately after three end-of-year AUD 500 deposits earning 4% yearly. [3 marks]