

Name:

## QUIZ – MATH GRADE 11 SL

1. (30%) Write fully what is meant by and **sum/simplify if possible**:

a.  $\sum_{i=2}^4 (\sqrt{i} + 1) =$

b.  $\sum_{i=1}^3 (3 \cdot (-2)^i) =$

c.  $\sum_{k=1}^4 \ln(k) =$

2. (30%) Write each series using sigma notation:

a.  $5 + 8 + 11 + 14 + 17 + 20 =$

b.  $500 + 100 + 20 + 4 + \dots =$

c.  $10 + 100 + 1000 + 10000 =$

3. (40%) Given the sequence 3, 2.5, 2, 1.5, ....

- (10%) Write its general term.
- (20%) Use sigma notation to represent the sum of its first 20 terms.
- (10%) Find the sum.