

Part 1

Do these problems. Show work.

1. Use this geometric series: $256 + 128 + 64 + 32 + 16 + 8 + 4 + 2 + 1$

a) Write both the explicit and recursive formulas:

Explicit:Recursive:

b) Write this series in sigma notation:

c) Use the formula for the sum of a geometric series to find the sum of this series: Show your work.

Find the sum of each using the formula for the sum of a geometric series. Show your work

2.
$$\sum_{n=1}^7 7(2)^{x-1}$$

3. $1440 + 720 + 360 + 180 + \dots + 22.5$

Part 2

More Practice pages 6-8, Agile Mind website for Topic 1: Exploring