Review on 11-4 and 11-5

Name:

Hour:

State if each list is a sequence or a series, arithmetic or geometric, finite or infinite.

1. 5, 2.5, 1.25, -----

Match each formula to its sum

a)
$$S = \frac{a_1}{1 - r}$$

b)
$$S_{n} = \frac{\alpha_{1}(1-r^{n})}{1-r}$$

7. The sum of an infinite geometric series
$$(r < 1)$$

c)
$$S_{\pi} = \frac{n}{2}(a_1 + a_{\pi})$$

8. The sum of an infinite geometric series
$$(r > 1)$$

Use the finite sequence. Write the related series. Then evaluate the series.

11. For the series
$$\sum_{n=1}^{6} 4n$$
, find the number of terms in the series.

12. For the series
$$\sum_{n=2}^{9} (n+1)$$
, find the number of terms in the series.