

## Mixed Sequences #1

For each of the following determine

a) If it is an arithmetic or geometric sequence

a) Write a recursive rule for the sequence

b) Write an explicit rule for the sequence

1) 1, 5, 25, 125, ...

2) 3, 12, 48, 192, ...

3) 16, 13, 10, 7, ...

4) 15, 25, 35, 45, ...

5) 1, 2, 4, 8, ...

6) -2, 10, -50, 250, ...

Find the indicated term of sequence

7) 4, 8, 16, 32, ...

Find  $a_{12}$

8) -4, 8, -16, 32, ...

Find  $a_{10}$

9) 8, 4, 0, -4, ...

Find  $a_{29}$

10) 9, 5, 1, -3, ...

Find  $a_{20}$

11) -2, -6, -18, -54, ...

Find  $a_{10}$

12) 3, 6, 12, 24, ...

Find  $a_{10}$