

(C2-7.1) Name:

Homework Questions 1 – Finding and Using the Common Ratio

1. Find the common ratio for the following sequences

a) 3, 12, 48, 192

b) 6, 9, 13.5, 20.25

c) 5, 45, 405, 3645

d) 7, 8.75, 10.9375, 13.671875

e) 11, 33, 99, 297

2. If 16, x , 9 are the first 3 terms of a geometric sequence, find the exact value of x

3. If 5, y , 31.25 are the first 3 terms of a geometric sequence, find the exact value of y

4. Find the common ratio and hence the 5th term of the following sequences

a) 2, -0.6, 0.18, -0.054

b) 150, 60, 24, 9.6