

- 1 (a) A geometric progression starts 4 16

Work out the next term.

[1 mark]

Answer _____

2 The first three terms of a geometric progression are $\frac{2}{3}$ $\frac{4}{9}$ $\frac{8}{27}$

Circle the fourth term.

[1 mark]

$$\frac{10}{81}$$

$$\frac{14}{81}$$

$$\frac{16}{81}$$

$$\frac{32}{81}$$

- 3** A is an **arithmetic** progression.
Here are the first four terms.

13 16 19 22

G is a **geometric** progression.
Here are the first four terms.

2 4 8 16

$n\text{th term of A} = 8\text{th term of G}$

Work out the value of n .

[4 marks]

$n =$ _____

- 4 (a)** The first three terms of a geometric progression are $\frac{\sqrt{5}}{2}$ $\frac{5}{4}$ $\frac{5\sqrt{5}}{8}$

Work out the next term.

[1 mark]

Answer _____

- 4 (b)** The n th term of a sequence is $(2 + \sqrt{3})^n$

Show that the third term is $26 + 15\sqrt{3}$

[3 marks]
