

4 A sequence is defined by

$$u_1 = 5$$

$$u_{n+1} = \frac{u_n - 5}{u_n - 3}$$

4 (a) Find u_2

Circle your answer.

[1 mark]

0

$\frac{5}{3}$

$\frac{5}{2}$

5

4 (b) Which one of the words below best describes the sequence?

Circle your answer.

[1 mark]

arithmetic

decreasing

geometric

periodic