

Question 2

(25 marks)

- (a) The first three terms of a geometric series are x^2 , $5x - 8$, and $x + 8$, where $x \in \mathbb{R}$.
Use the common ratio to show that $x^3 - 17x^2 + 80x - 64 = 0$.

- (b) If $f(x) = x^3 - 17x^2 + 80x - 64$, $x \in \mathbb{R}$, show that $f(1) = 0$, **and** find another value of x for which $f(x) = 0$.

Show: _____

Other value: _____

