14th August

Simplify fully
\[
\frac{6}{(x - 5)(x - 3)} + \frac{x}{x - 3}
\]

\[x_{n+1} = -3 - \frac{5}{x_n^2}\]

Starting with \(x_0 = -4\)

Find \(x_1\), \(x_2\) and \(x_3\)

Explain the relationship between the values of \(x_1\), \(x_2\) and \(x_3\) and the equation \(x^3 + 3x^2 + 5 = 0\)

A is directly proportional to the cube root of B. B is increased by 60%. Work out the percentage increase in A.

The distance between the points (1, 2) and (16, \(p\)) is 17. Find the possible values of \(p\).  

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