
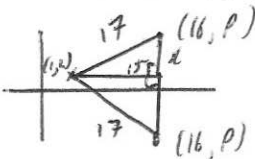


14th August	
Simplify fully $\frac{6}{(x-5)(x-3)} + \frac{x}{x-3}$	<div style="text-align: right;">  Corbettmaths </div> $\frac{x-2}{x-5}$
$x_{n+1} = -3 - \frac{5}{x_n^2}$ Starting with $x_0 = -4$ Find x_1 , x_2 and x_3	$x_0 = -4$ $x_1 = -\frac{53}{16}$ $x_2 = -3.455678177$ $x_3 = -3.418700446$
Explain the relationship between the values of x_1 , x_2 and x_3 and the equation $x^3 + 3x^2 + 5 = 0$ <i>Increasingly accurate approximations to a solution of</i> $x^3 + 3x^2 + 5 = 0$	
A is directly proportional to the cube root of B. B is increased by 60%. Work out the percentage increase in A. $A \propto \sqrt[3]{B}$	$\sqrt[3]{1.6} = 1.1691\dots$ 16.96%
The distance between the points (1, 2) and (16, p) is 17. Find the possible values of p. 	$15^2 + x^2 = 17^2$ $x = 8$ $(16, 10) \text{ or } (16, -6)$ $p = -6 \text{ or } 10$