31st May Higher Plus 5-a-day	
$x_{n+1} = -3 - \frac{5}{x_n^2}$	Corbettmαths
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 $x^3 + 3x^2 + 5 = 0$	
y y 4 3 2 1 -4 -3 -2 -1 -2 1 -3 -2 -1 -2 1 -3 -2 -1 -3 -2 -1 -3 -2 -1 -2 -3 -2 -1 -3 -2 -1 -3 -2 -1 -2 -3 -4 -3 -2 -1 -2 -3 -2 -1 -2 -1 -3 -2 -1 -2 -3 -3 -4 -3 -4 -3 -4 -3 -4 -3 -4 -3 -4 -3 -4 <td>By drawing an appropriate straight line, use your graph to find estimates for the solutions of $x^2 - 2x - 1 = 0$</td>	By drawing an appropriate straight line, use your graph to find estimates for the solutions of $x^2 - 2x - 1 = 0$
-1 -2 -3	Calculate an estimate for the gradient of the graph $y = x^2 - x - 2$ at the point where $x = 1$
Shown is $y = x^2 - x - 2$	
A money box contains Four £2 coins Three £1 coins Five 50p coins	Find the probability that exactly £3 is selected.
Three coins are taken at random	