


30th March	
<p>An arithmetic series has a common difference of 9.</p> <p>The sum of the first 21 terms is 3171.</p> <p>Calculate a.</p>	 Corbettm0ths
<p>The equation <math>kx^2 + 4x + (5 - k) = 0</math> has no real roots.</p> <p>Find the set of possible values of k.</p>	
<p>Solve</p> $x - 11\sqrt{x} + 28 = 0$	
<p>A curve has equation <math>y = f(x)</math> and passes through the point (4, 10)</p> <p>Given that</p> $f'(x) = 3x^2 + x^{\frac{1}{2}} - 2$	Find $f(x)$
<p>Find the equation of the normal to the curve at the point (1, -1)</p> $y = 2x^3 - \frac{3}{x^2}$	