

<p><b>13th July</b></p> <p>Simplify</p> $\frac{x^3 - x}{x + 2} \div \frac{x(x-1)(x+1)}{x^2 - 5x - 14}$ <p style="text-align: right;"><i>x(x-1)</i></p> <p style="text-align: center;"><i>(x+2)(x-7)</i></p>	<p style="text-align: right;">Corbettmaths</p> $\frac{x(x-1)(x+1)}{x+2} \times \frac{(x+2)(x-7)}{x(x-1)}$ $(x+1)(x-7)$
<p>Express <math>\left(\frac{1}{\sqrt{5}}\right)^5</math> in the form <math>\frac{\sqrt{a}}{b}</math></p>	$\frac{\sqrt{5}}{125}$
<p>Given that</p> $x^2 : (x + 6) = 1 : 2$ <p>Find the possible values of x</p>	$2x^2 = x + 6$ $2x^2 - x - 6 = 0$ $(2x + 3)(x - 2) = 0$ $x = -\frac{3}{2} \text{ or } x = 2$
<p>Frequency Density</p> <p style="text-align: center;"><i>total 384</i></p>	<p>Miss Kelly wants to draw a pie chart to represent the grades obtained by the students.</p> <p>If a student scored 350 marks or higher, they obtained a grade 9.</p> <p>What size should the angle of the sector for grade 9 be in her pie chart?</p> $\frac{69}{384} \times 360 = 64.6875^\circ$