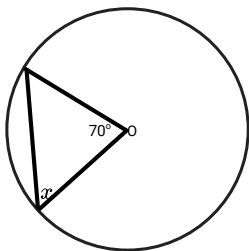
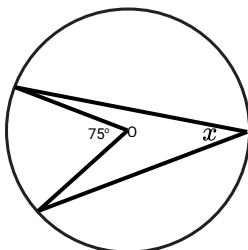
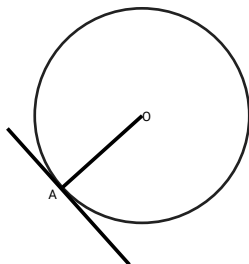




CCEA GCSE Maths Revision Mat

M4



Factorise $2x^2 + 7x + 3$	Find angle x. 	Solve $2x^2 + 9x + 4 = 0$	The line $y=4x-7$ is perpendicular to line L. Find the gradient of line L.
Find angle x. 	A school has 180 pupils. 72 pupils are in Year 11. A stratified sample of 30 pupils. How many Year 11 pupils should be selected?	A length is measured as 14.2cm correct to 1 decimal place. Another length is measured as 8.7cm correct to 1 decimal place. Calculate the upper bound of: $14.2-8.7$	Find the angle between the tangent and the radius. 
A cone has a height 12cm and base radius 6cm. The top 4cm of the cone is removed to form a frustum. Calculate the radius of the top of the frustum.	Factorise $9x^2 - 16$	Simplify $\frac{2}{x+3} + \frac{1}{x-2}$	A class interval has width 8. The frequency is 48. Calculate the frequency density.

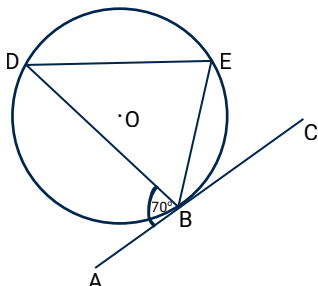
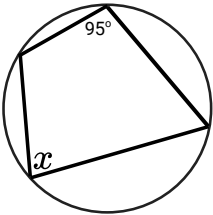
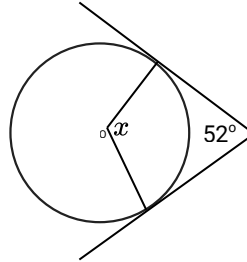
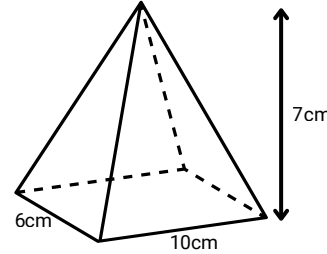
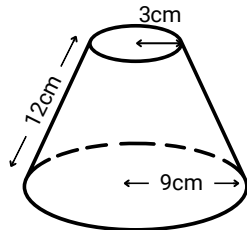




CCEA GCSE Maths Revision Mat

M4



Factorise $3x^2 - 11x - 4$	Which other angle is 70° 	Solve $2x^2 - 5x - 3 = 0$	The line $y = 2x - 5$ is perpendicular to line L. Line L passes through $(4, 3)$. Find the equation of line L.												
Find angle x. 	The formula for p is $p = \frac{a^2}{4b}$ Given that $a = 23.4$ correct to 3 significant figures. $b = 5.2$ correct to 1 decimal place, calculate the upper bound of p.	Find angle x. 	Calculate the volume of the pyramid. 												
Calculate the volume of the frustum 	Simplify fully: $\frac{2x^2 - 98}{x^2 - 9x + 14}$	Simplify $\frac{3}{x + 2} - \frac{1}{x + 5}$	Complete the frequency density column. <table><tr><th>Class Interval</th><th>Frequency</th><th>Frequency Density</th></tr><tr><td>$0 < x \leq 10$</td><td>30</td><td></td></tr><tr><td>$10 < x \leq 20$</td><td>24</td><td></td></tr><tr><td>$20 < x \leq 40$</td><td>18</td><td></td></tr></table>	Class Interval	Frequency	Frequency Density	$0 < x \leq 10$	30		$10 < x \leq 20$	24		$20 < x \leq 40$	18	
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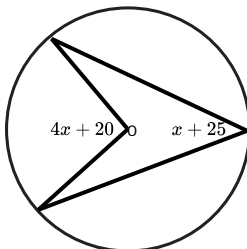
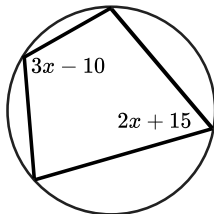
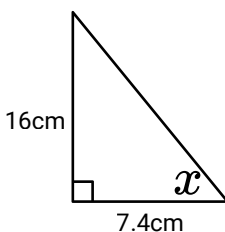
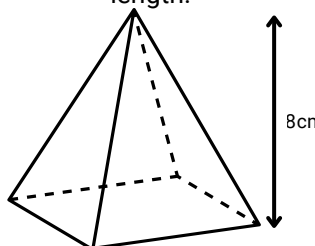
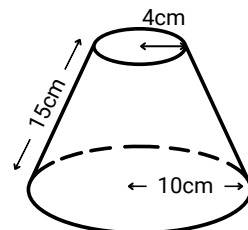




CCEA GCSE Maths Revision Mat

M4



Factorise $6x^2 - 7x - 3$	Calculate x 	Solve $3x^2 + 4x - 7 = 0$	The line $4y+2x =12$ is perpendicular to line L. Line L passes through $(6,-1)$ Find the equation of line L.												
Calculate x. 	16cm correct to 1sf 7.4cm correct to 2sf Calculate the lower bound of $\tan(x)^\circ$ 	A rectangle has length $(x+4)$cm and width $(x-1)$cm. The area of the rectangle is 60cm^2 Calculate the value of x.	The volume of a square-based pyramid is 384cm^3 Calculate the side length. 												
Calculate the total surface area of the frustum 	Solve: $\frac{1}{x-1} - \frac{1}{x+2} = \frac{1}{6}$	Solve $\frac{x+2}{5} \div \frac{x^2+6x+8}{10} = \frac{1}{4}$	Complete the table. <table><tr><th>Class Interval</th><th>Frequency</th><th>Frequency Density</th></tr><tr><td>$0 < x \leq 8$</td><td>18</td><td></td></tr><tr><td>$8 < x \leq 20$</td><td></td><td>1.5</td></tr><tr><td>$20 < x \leq 35$</td><td></td><td>3.6</td></tr></table>	Class Interval	Frequency	Frequency Density	$0 < x \leq 8$	18		$8 < x \leq 20$		1.5	$20 < x \leq 35$		3.6
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