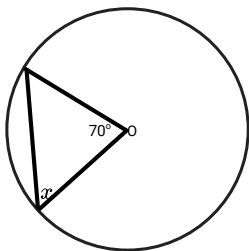
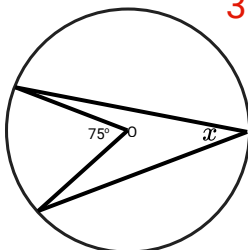
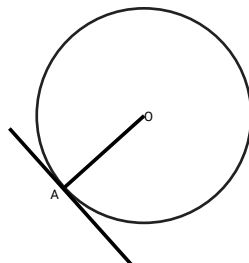




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M4



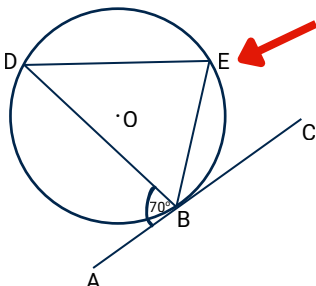
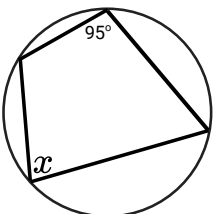
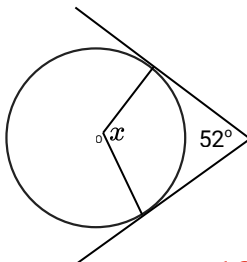
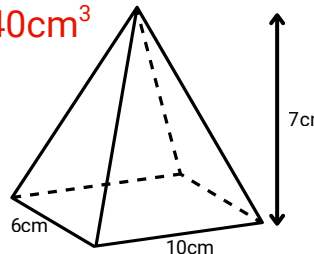
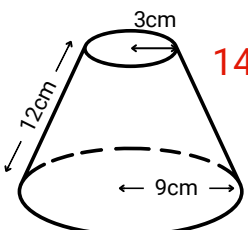
Factorise $2x^2 + 7x + 3$ $(2x + 1)(x + 3)$	Find angle x. 	Solve $2x^2 + 9x + 4 = 0$ $-4 \text{ or } -0.5$	The line $y=4x-7$ is perpendicular to line L. Find the gradient of line L. $-1/4$
Find angle x. 	A school has 180 pupils. 72 pupils are in Year 11. A stratified sample of 30 pupils. How many Year 11 pupils should be selected? 12	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: $14.2-8.7 \quad 5.6$	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. 2cm	Factorise $9x^2 - 16$ $(3x - 4)(3x + 4)$	Simplify $\frac{2}{x+3} + \frac{1}{x-2}$ $\frac{3x-1}{(x+3)(x-2)}$	A class interval has width 8. The frequency is 48. Calculate the frequency density. 6



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M4



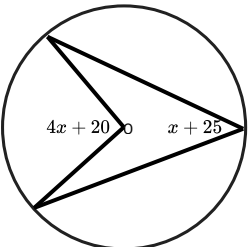
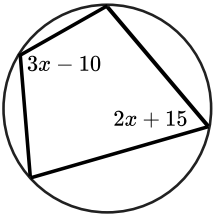
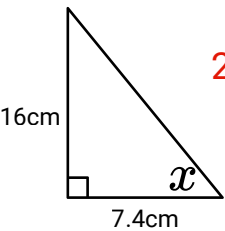
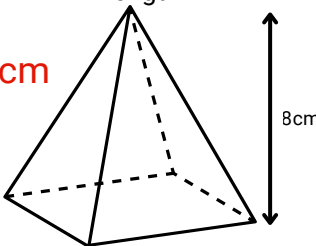
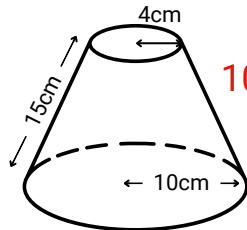
Factorise $3x^2 - 11x - 4$ $(3x + 1)(x - 4)$	Which other angle is 70° 	Solve $2x^2 - 5x - 3 = 0$ $3 \text{ or } -0.5$	The line $y = 2x-5$ is perpendicular to line L. Line L passes through $(4,3)$. Find the equation of line L. $y = -\frac{1}{2}x + 5$												
Find angle x.  85°	The formula for p is $p = \frac{a^2}{4b}$ Given that $a = 23.4$ correct to 3 significant figures. $b = 5.2$ correct to 1 decimal place, calculate the upper bound of p. 26.7	Find angle x.  128°	Calculate the volume of the pyramid.  140cm^3												
Calculate the volume of the frustum  1470cm^3	Simplify fully: $\frac{2x^2 - 98}{x^2 - 9x + 14}$ $\frac{2(x + 7)}{(x - 2)}$	Simplify $\frac{3}{x + 2} - \frac{1}{x + 5}$ $\frac{2x + 13}{(x + 2)(x + 5)}$	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>3</td></tr><tr><td>$10 < x \leq 20$</td><td>24</td><td>2.4</td></tr><tr><td>$20 < x \leq 40$</td><td>18</td><td>0.9</td></tr></table>	Class Interval	Frequency	Frequency Density	$0 < x \leq 10$	30	3	$10 < x \leq 20$	24	2.4	$20 < x \leq 40$	18	0.9
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M4



Factorise $6x^2 - 7x - 3$ $(3x + 1)(2x - 3)$	Calculate x  15	Solve $3x^2 + 4x - 7 = 0$ 1 or -7/3	The line $4y+2x =12$ is perpendicular to line L. Line L passes through (6,-1) Find the equation of line L. $y = 2x - 13$												
Calculate x.  35	16cm correct to 1sf 7.4cm correct to 2sf Calculate the lower bound of $\tan(x)^\circ$  2.08	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. 6.64	The volume of a square-based pyramid is 384cm^3 Calculate the side length.  12cm												
Calculate the total surface area of the frustum  1024 cm²	Solve: $\frac{1}{x - 1} - \frac{1}{x + 2} = \frac{1}{6}$ x = 4 or -5	Solve $\frac{x + 2}{5} \div \frac{x^2 + 6x + 8}{10} = \frac{1}{4}$ 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>2.25</td></tr><tr><td>$8 < x \leq 20$</td><td>18</td><td>1.5</td></tr><tr><td>$20 < x \leq 35$</td><td>54</td><td>3.6</td></tr></table>	Class Interval	Frequency	Frequency Density	$0 < x \leq 8$	18	2.25	$8 < x \leq 20$	18	1.5	$20 < x \leq 35$	54	3.6
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