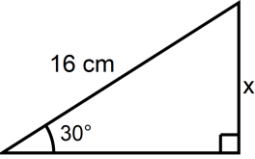
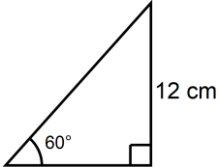
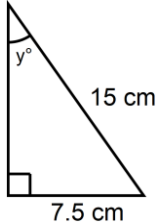
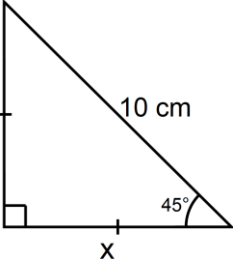
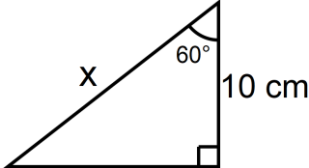
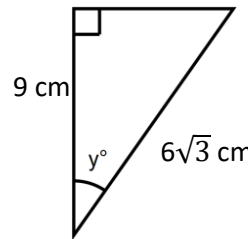
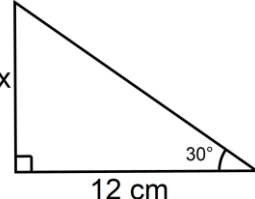
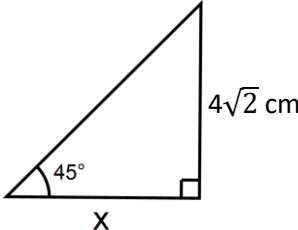
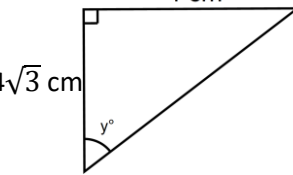
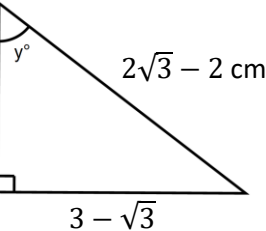
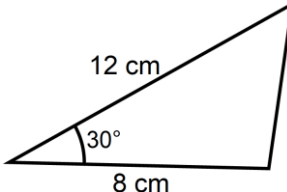
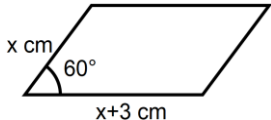
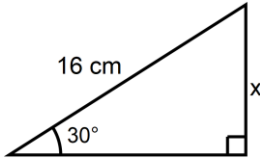
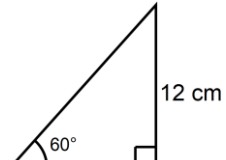
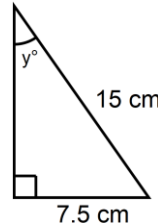
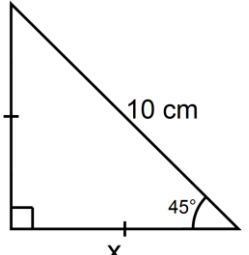
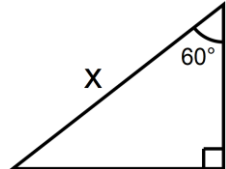
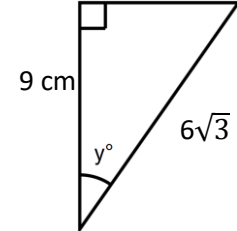
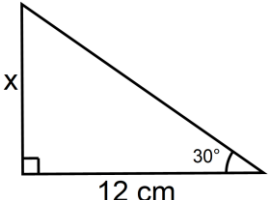
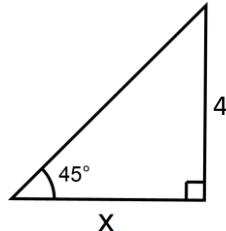
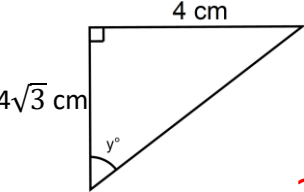
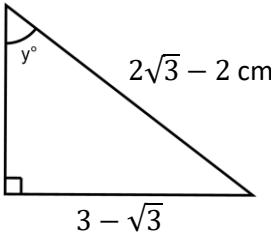
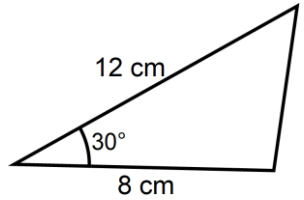
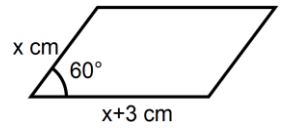


EXACT TRIG VALUES – Non-calculator

<p>Sine</p>	<p>State the value of sine of</p> <table border="1"> <thead> <tr> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> <th>90°</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	0°	30°	45°	60°	90°						<p>Work out the exact value of x</p> 	<p>Work out the exact value of x</p> 	<p>Work out the size of angle y</p> 
0°	30°	45°	60°	90°										
<p>Cosine</p>	<p>State the value of cosine for</p> <table border="1"> <thead> <tr> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> <th>90°</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	0°	30°	45°	60°	90°						<p>Work out the exact value of x</p> 	<p>Work out the exact value of x</p> 	<p>Work out the size of angle y</p> 
0°	30°	45°	60°	90°										
<p>Tangent</p>	<p>State the value of tan for</p> <table border="1"> <thead> <tr> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	0°	30°	45°	60°					<p>Work out the exact value of x</p> 	<p>Work out the exact value of x</p> 	<p>Work out the size of angle y</p> 		
0°	30°	45°	60°											
<p>Challenge Questions</p>	<p>Show that $20 \cos 30^\circ + 4 \sin 60^\circ - 2 \tan 60^\circ$ can be written in the form \sqrt{k} where k is an integer</p>	<p>Work out the size of angle y</p> 	<p>Work out the area of the triangle</p> 	<p>The parallelogram has an area of $20\sqrt{3} \text{ cm}^2$. Find the value of x.</p> 										

EXACT TRIG VALUES – Non-calculator - ANSWERS

<p>Sine</p>	<p>State the value of sine of</p> <table border="1"> <thead> <tr> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> <th>90°</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>$\frac{1}{2}$</td> <td>$\frac{\sqrt{2}}{2}$</td> <td>$\frac{\sqrt{3}}{2}$</td> <td>1</td> </tr> </tbody> </table>	0°	30°	45°	60°	90°	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	<p>Work out the exact value of x</p>  <p style="text-align: right;">8 cm</p>	<p>Work out the exact value of x</p>  <p style="text-align: right;">$8\sqrt{3}$ cm</p>	<p>Work out the size of angle y</p>  <p style="text-align: right;">30°</p>
0°	30°	45°	60°	90°										
0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1										
<p>Cosine</p>	<p>State the value of cosine for</p> <table border="1"> <thead> <tr> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> <th>90°</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>$\frac{\sqrt{3}}{2}$</td> <td>$\frac{\sqrt{2}}{2}$</td> <td>$\frac{1}{2}$</td> <td>0</td> </tr> </tbody> </table>	0°	30°	45°	60°	90°	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	<p>Work out the exact value of x</p>  <p style="text-align: right;">$5\sqrt{2}$ cm</p>	<p>Work out the exact value of x</p>  <p style="text-align: right;">20 cm</p>	<p>Work out the size of angle y</p>  <p style="text-align: right;">30°</p>
0°	30°	45°	60°	90°										
1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0										
<p>Tangent</p>	<p>State the value of tan for</p> <table border="1"> <thead> <tr> <th>0°</th> <th>30°</th> <th>45°</th> <th>60°</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>$\frac{\sqrt{3}}{3}$</td> <td>1</td> <td>$\sqrt{3}$</td> </tr> </tbody> </table>	0°	30°	45°	60°	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	<p>Work out the exact value of x</p>  <p style="text-align: right;">$4\sqrt{3}$ cm</p>	<p>Work out the exact value of x</p>  <p style="text-align: right;">$4\sqrt{2}$ cm</p>	<p>Work out the size of angle y</p>  <p style="text-align: right;">30°</p>		
0°	30°	45°	60°											
0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$											
<p>Challenge Questions</p>	<p>Show that $20 \cos 30^\circ + 4 \sin 60^\circ - 2 \tan 60^\circ$ can be written in the form \sqrt{k} where k is an integer</p> <p style="text-align: right;">$10\sqrt{3}$</p>	<p>Work out the size of angle y</p>  <p style="text-align: right;">60°</p>	<p>Work out the area of the triangle</p>  <p style="text-align: right;">24 cm^2</p>	<p>The parallelogram has an area of $20\sqrt{3} \text{ cm}^2$. Find the value of x.</p>  <p style="text-align: right;">$x = 5$</p>										