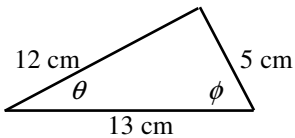
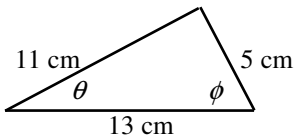
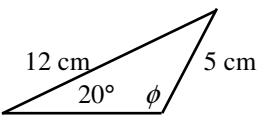
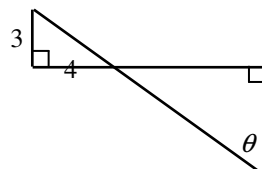
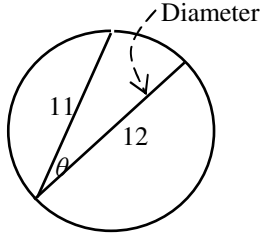
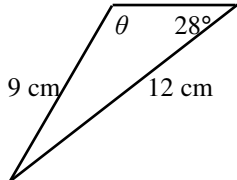
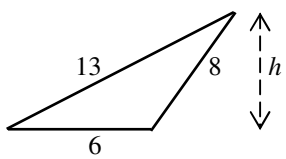
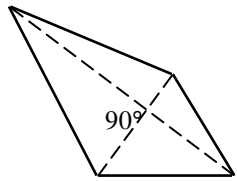
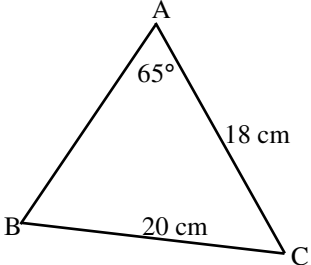
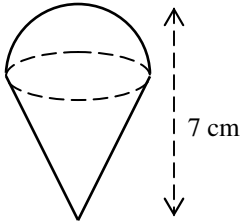


= Year 12 = Geometry & Trigonometry = Worksheet 3

<p>1. Find θ and ϕ in degrees.</p> 	<p>2. Find θ and ϕ in degrees.</p> 
<p>3. Find the obtuse angle ϕ in degrees.</p> 	<p>4. Evaluate $\cos \theta$.</p> 
<p>5. Find the exact value of $\tan \theta$.</p> 	<p>6. Find the value of $\sin \theta$.</p> 
<p>7. Find the altitude h of the triangle.</p> 	<p>8. Find the area of the quadrilateral. The two diagonals are 12.5 cm and 22.8 cm long.</p> 
<p>9. Find the length of AB.</p> 	<p>10. Refer to the triangle in Q9. Find the area of ΔABC.</p>
<p>11. Find the total surface area of the composite solid consisting of a hemisphere and a circular cone. Diameter = 6 cm.</p> 	<p>Numerical, algebraic and worded answers.</p> <ol style="list-style-type: none"> 1. $\theta = 22.6^\circ, \phi = 67.4^\circ$ 2. $\theta = 22.1^\circ, \phi = 55.8^\circ$ 3. 124.8° 4. 0.6 5. $(\sqrt{23})/11$ 6. 0.626 7. 5.56 8. 142.5 cm² 9. 19.2 cm 10. 156.4 cm² 11. 66 cm²