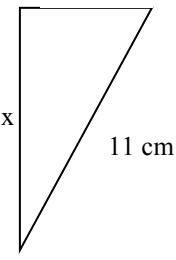
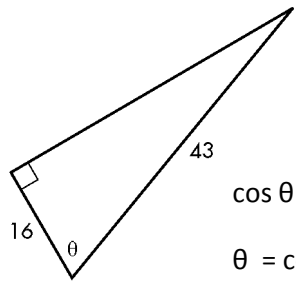
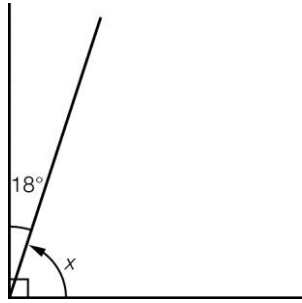
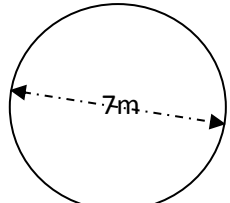
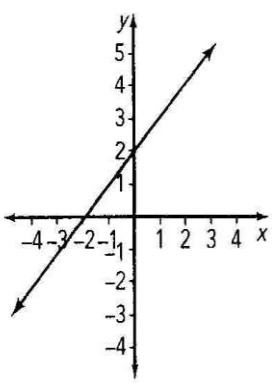


If a question has more than 1 mark, show some working out for full marks.

Due: \_\_\_\_\_

<p><b>1. Pythagoras' Theorem (2)</b> Find the length of the hypotenuse.</p>  <p> <math>x^2 = 11^2 - \underline{\quad}</math>  <math>x^2 = \underline{\quad} + \underline{\quad}</math>  <math>x^2 =</math>  <math>x = \sqrt{\underline{\quad}}</math>  <math>x =</math> </p>	<p><b>2. Fractions (3)</b> a) Multiply and simplify</p> $\frac{2}{5} \times \frac{1}{4}$ <p>b) Change to a mixed number</p> $\frac{17}{6}$	<p><b>3. Statistics – (4)</b> Find the mean, median and mode for:</p> <p>23, 34, 56, 71, 34, 22, 85, 26</p>
<p><b>4. Trigonometry (2)</b></p>  <p> <math>\cos \theta = \underline{\quad}</math>  <math>\theta = \cos^{-1}(\underline{\quad})</math>  <math>\theta =</math> </p>	<p><b>5. Expanding (4)</b> Expand these brackets</p> <p>a) <math>-2(x + 3)</math></p> <p>b) <math>2x(5x - 4)</math></p>	<p><b>6. Geometry- (1)</b> What is the value of x?</p> 
<p><b>7. Indices (2)</b> Simplify <math>2x^3 \times -3x^5</math></p>	<p><b>8. Financial Arithmetic (3)</b></p> <p>a) 10% of 370</p> <p>b) 20 % of 370</p> <p>c) 5 % of 370</p>	<p><b>9. Measurement (2)</b> Find the circumference of this circle <math>C = \pi d</math></p> 
<p><b>10. Linear Equations (4) State the rule (<math>y = mx + c</math>) for these graph. Recall that <math>m</math> = gradient and <math>c</math> = y-intercept.</b></p>		
<p>a)</p> 	<p>b)</p> 