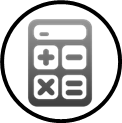
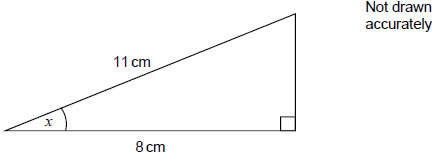
**End of Unit Test** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Pythagoras’ Theorem and Trigonometry - HIGHER**

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Calculator allowed

1) (a) Work out the size of angle *x*.



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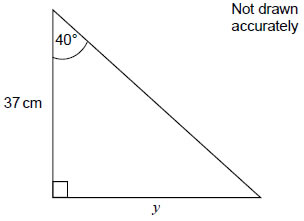
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Answer ......................................................................degrees

**(2)**

(b) Work out length *y*.



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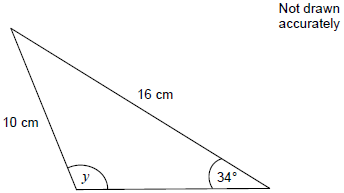
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Answer ..............................................................................cm

**(2)**

**(Total 4 marks)**

2) In the triangle, angle *y* is obtuse.



Work out the size of angle *y*

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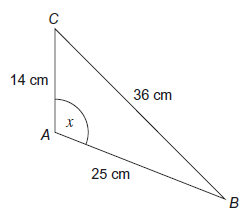
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Answer ............................................ degrees

**(Total 3 marks)**

3) Work out the size of angle *x*. Not drawn accurately



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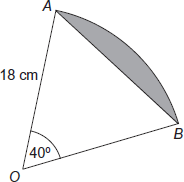
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Answer .................................................................... degrees

**(Total 3 marks)**

4) The diagram shows a sector of a circle, centre *O*, radius 18 cm. Not drawn accurately.



Work out the area of the shaded segment.

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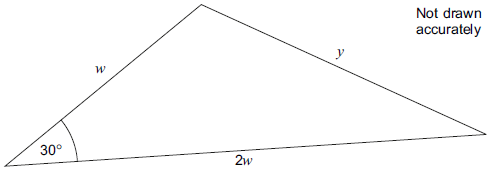
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Answer ............................................................... cm2

**(Total 5 marks)**

5) The area of this triangle is 18cm²



Work out *y*.

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*y* = ....................................................... cm

**(Total 5 marks)**

**(Total for test = 20 marks)**