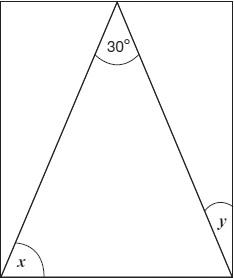
**Class 5 – Homework – Alnwick – 16.1.23**

**Q1.**

Here is an **isosceles** triangle inside a rectangle.

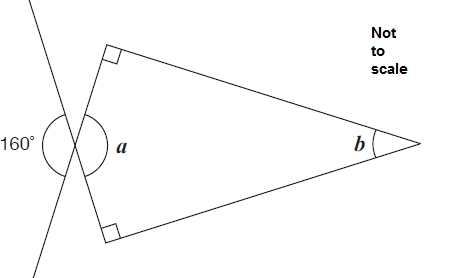


**Not to scale**

Calculate the sizes of angles ***x*** and ***y***.

**Q2.**

Calculate the size of angles ***a*** and ***b*** in this diagram.



1 mark



1 mark

**Q3.**

Anna has four **different** triangles.

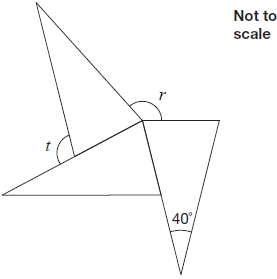
Complete the table to show the size of the angles in each triangle.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Type of triangle** | **Angle 1** | **Angle 2** | **Angle 3** |
|  | Isosceles | 90° |  |  |
|  | Right-angled | 80° |  |  |
|  | Isosceles | 70° |  |  |
|  | Isosceles | 70° |  |  |

2 marks

**Q4.**

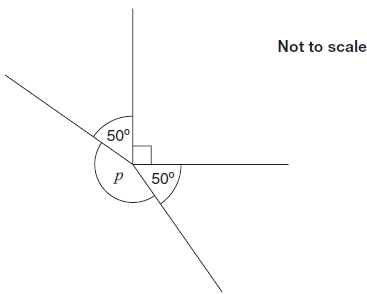
The diagram shows three **identical** isosceles triangles.



What are the sizes of angles *r* and *t*?

2 marks

**Q5.**

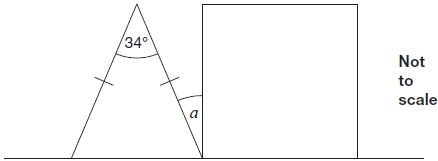


Calculate the size of angle ***p*** in the diagram.

Do **not** use a protractor (angle measurer).

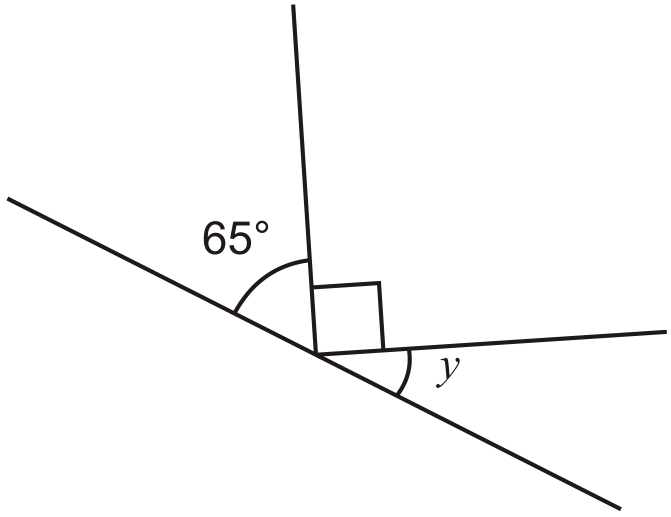
**Q6.**

The diagram shows an isosceles triangle and a square on a straight line.



Calculate angle *α*.

**Q7.**



**Not to scale**

Calculate the size of angle ***y*** in this diagram.

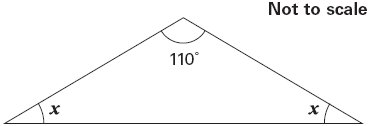
Do **not** use a protractor (angle measurer).



1 mark

**Q8.**

Here is an isosceles triangle.



Calculate the size of angle *x*.

Do **not** use a protractor (angle measurer).



1 mark