

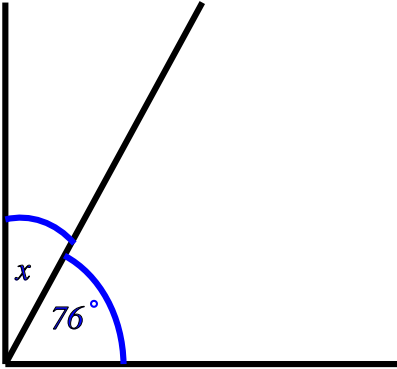
Basic Angle Rules - reasons required in answers

Name: _____ Class: _____ Date: _____

Mark / 15 %

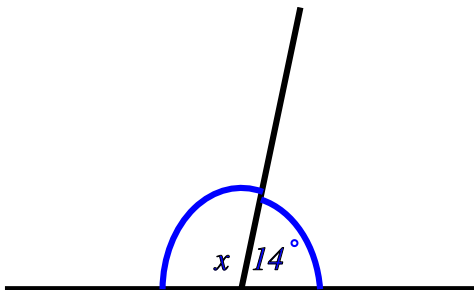
1) Find the value of x , giving a reason for your answer.

[1]



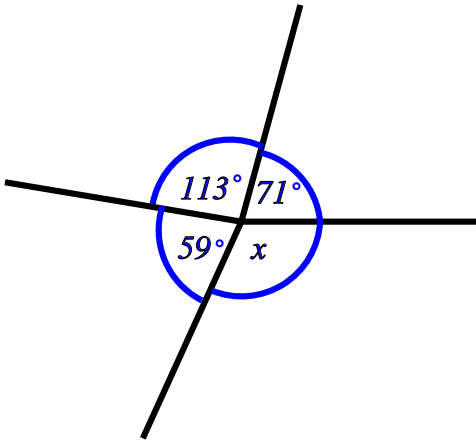
2) Find the value of x , giving a reason for your answer.

[1]



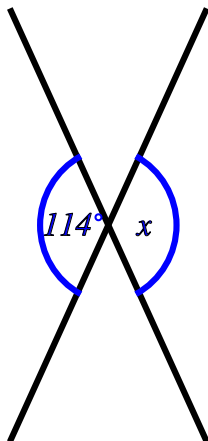
3) Find the value of x , giving a reason for your answer.

[1]



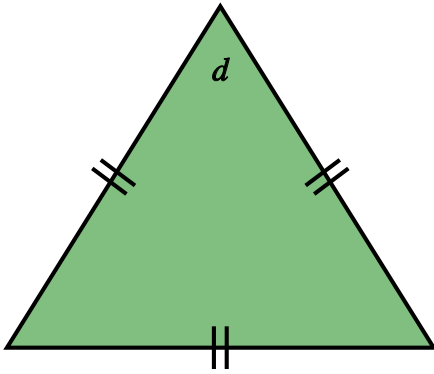
4) Find the value of x , giving a reason for your answer.

[1]



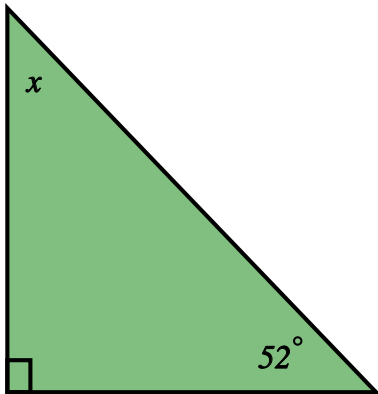
5) Find the value of d , giving a reason for your answer.

[1]



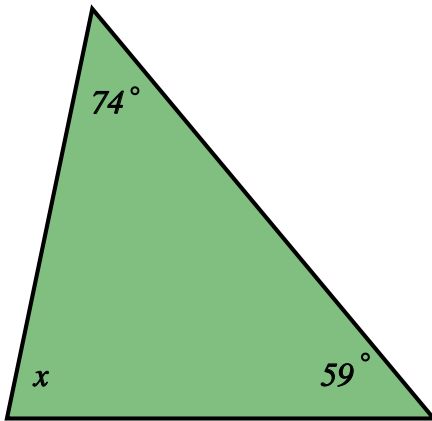
6) Find the value of x , giving a reason for your answer.

[1]



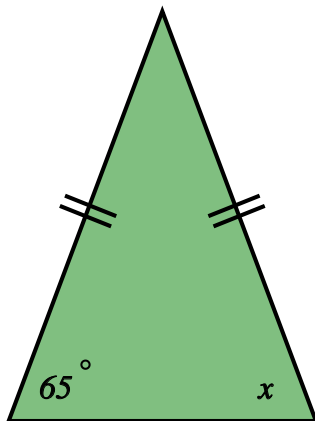
7) Find the value of x , giving a reason for your answer.

[1]



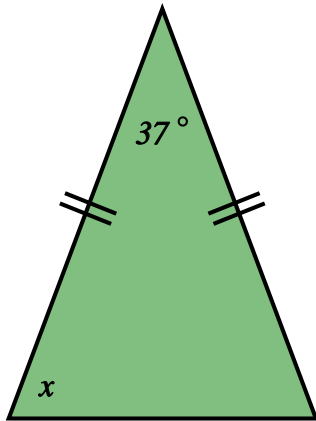
8) Find the value of x , giving a reason for your answer.

[1]



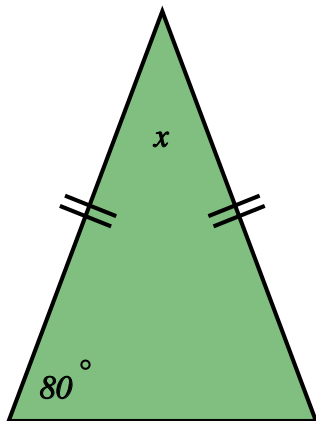
9) Find the value of x , giving reasons for your answer.

[1]



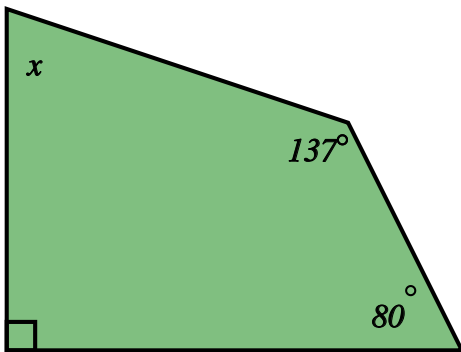
10) Find the value of x , giving reasons for your answer.

[1]



11) Find the value of x , giving a reason for your answer.

[1]



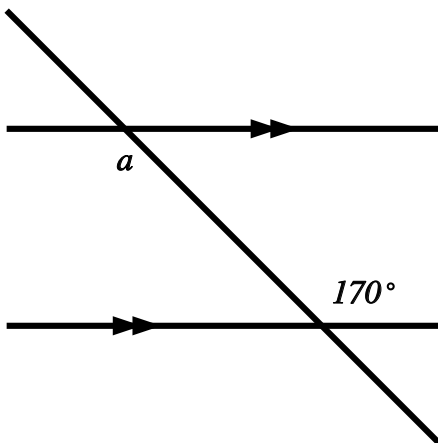
12) Find the supplement of the following angle

[1]

11°

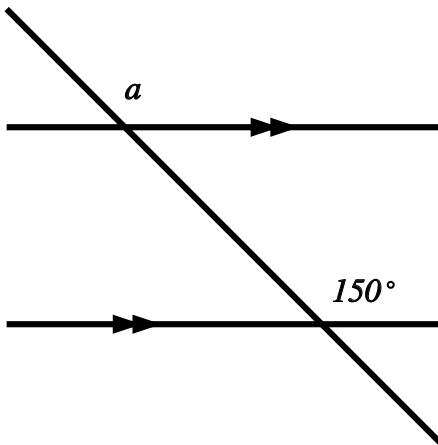
13) Find the value of a , giving a reason for your answer.

[1]



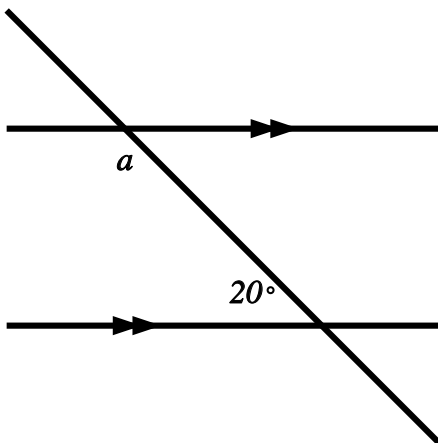
14) Find the value of a , giving a reason for your answer.

[1]



15) Find the value of a , giving a reason for your answer.

[1]



Solutions for the assessment Basic Angle Rules - reasons required in answers

- 1) $x = 14^\circ$ (Angles in a right-angle sum to 90°)
- 2) $x = 166^\circ$ (Angles on a straight line sum to 180°)
- 3) $x = 117^\circ$ (Angles at a point sum to 360°)
- 4) $x = 114^\circ$ (Vertically opposite angles are equal)
- 5) $d = 60^\circ$ (Angles in an equilateral triangle are equal)
- 6) $x = 38^\circ$ (Angle sum of a triangle is 180°)
- 7) $x = 47^\circ$ (Angle sum of a triangle is 180°)
- 8) $x = 65^\circ$ (Two equal angles in isosceles triangle)
- 9) $x = 71.5^\circ$ (Isosceles triangle and angle sum of a triangle)
- 10) $x = 20^\circ$ (Isosceles triangle and angle sum of a triangle)
- 11) $x = 53^\circ$ (Angle sum of a quadrilateral is 360°)
- 12) 169°
- 13) $a = 170^\circ$ (Alternate angles are equal)
- 14) $a = 150^\circ$ (Corresponding angles are equal)
- 15) $a = 160^\circ$ (Co-interior angles sum to 180°)