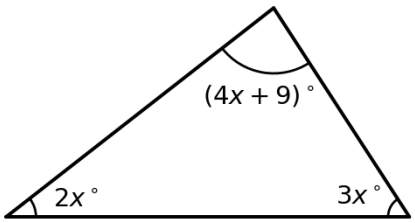
Angles 3 · Angles in triangles and quadrilaterals

Exam-Style Questions · Total: 20 marks · Suggested time: 25 minutes

Name: _____ Class: _____ Date: _____

Answer all questions. Show all your working. Give reasons where asked. Diagrams marked NOT TO SCALE must not be measured. The number of marks is given in brackets [ ].

1 The diagram shows a triangle.



NOT TO SCALE

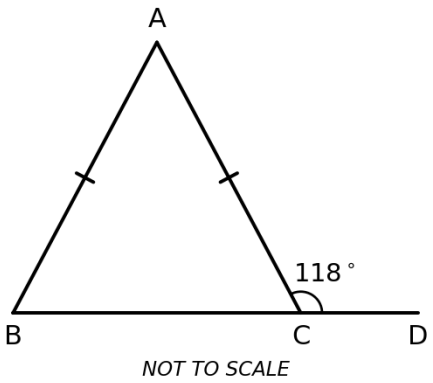
(a) Find the value of x.

x = ... [2]

(b) Find the size of the largest angle.

..... [1]

2 ABC is an isosceles triangle with AB = AC.
BCD is a straight line.



NOT TO SCALE

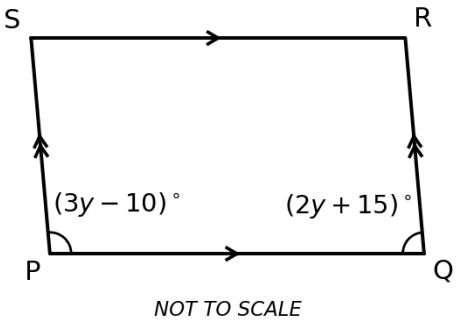
(a) Find angle ACB.

Angle ACB = ... [1]

(b) Find angle BAC. Give reasons for your answer.

Angle BAC = ... [3]

3 PQRS is a parallelogram.



NOT TO SCALE

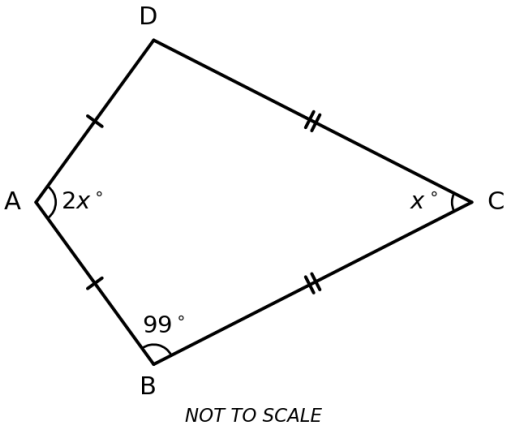
(a) Find the value of y.

y = ... [2]

(b) Find angle QRS.

Angle QRS = ... [1]

4 ABCD is a kite with AB = AD and CB = CD.



NOT TO SCALE

(a) Write down angle ADC.

Angle ADC = ... [1]

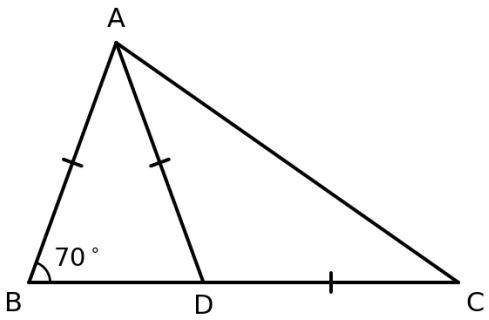
(b) Find the value of x.

x = ... [2]

(c) Find angle BAD.

Angle BAD = ... [1]

5 BDC is a straight line and AB = AD = DC.
Angle ABD = 70°.



NOT TO SCALE

(a) Find angle ADB.

Angle ADB = ... [1]

(b) Find angle ADC.

Angle ADC = ... [1]

(c) Find angle ACD. Give a reason for your answer.

Angle ACD = ... [2]

(d) Find angle BAC.

Angle BAC = ... [2]