

Geometry - Angles of a Quadrilateral

Q1

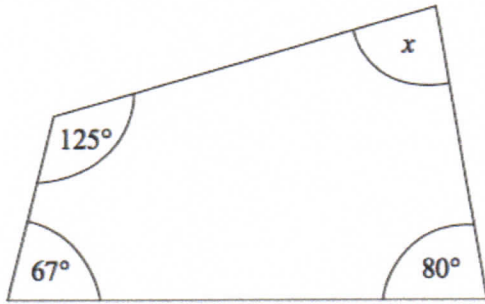


Diagram NOT accurately drawn

(a) (i) Work out the size of the angle marked x .

$x = \dots\dots\dots^\circ$

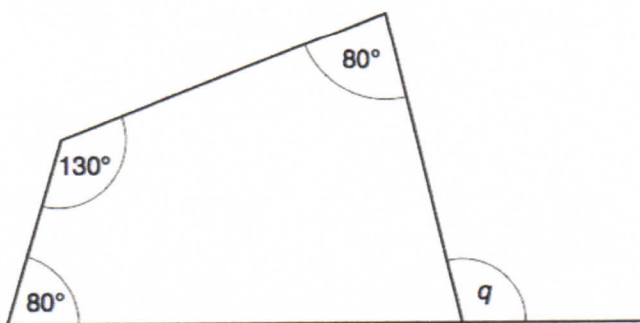
(ii) Give a reason for your answer.

.....
.....

(3)

Q2

Calculate the size of angle q .
Give reasons for your answer.



NOT TO SCALE

.....
.....
.....

$q = \dots\dots\dots^\circ$ because

.....
.....

[5]

Geometry - Angles of a Quadrilateral

Q1

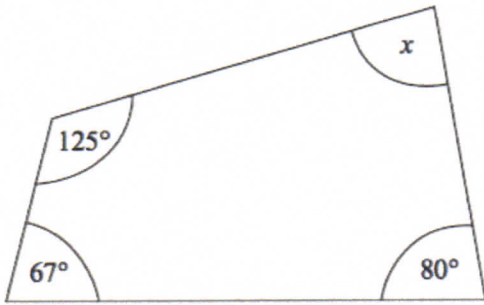


Diagram NOT accurately drawn

$$\begin{array}{r} 125 \\ 80 \\ 67 + \\ \hline 272 \end{array} \qquad \begin{array}{r} 272 \\ 360 \\ \hline 88 \end{array}$$

(a) (i) Work out the size of the angle marked x .

$x = 88^\circ$

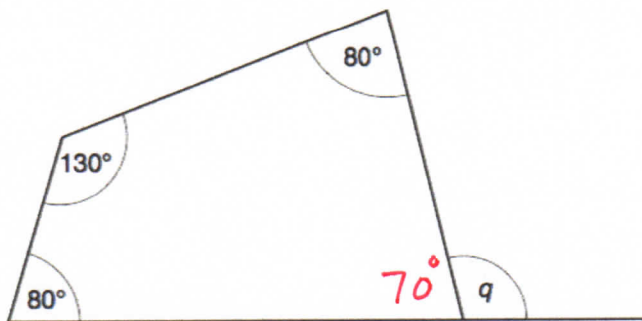
(ii) Give a reason for your answer.

Angles of a quadrilateral add up to 360°

(3)

Q2

Calculate the size of angle q .
Give reasons for your answer.



NOT TO SCALE

$$\begin{array}{r} 130 \\ 80 \\ 80 + \\ \hline 290 \end{array} \qquad \begin{array}{r} 290 \\ 360 \\ \hline 70 \end{array}$$

Unknown angle in quadrilateral = 70° (angles add up to 360°)

$$q = 180 - 70 = 110^\circ$$

$q = 110^\circ$ because angles on straight line add up to 180°

[5]