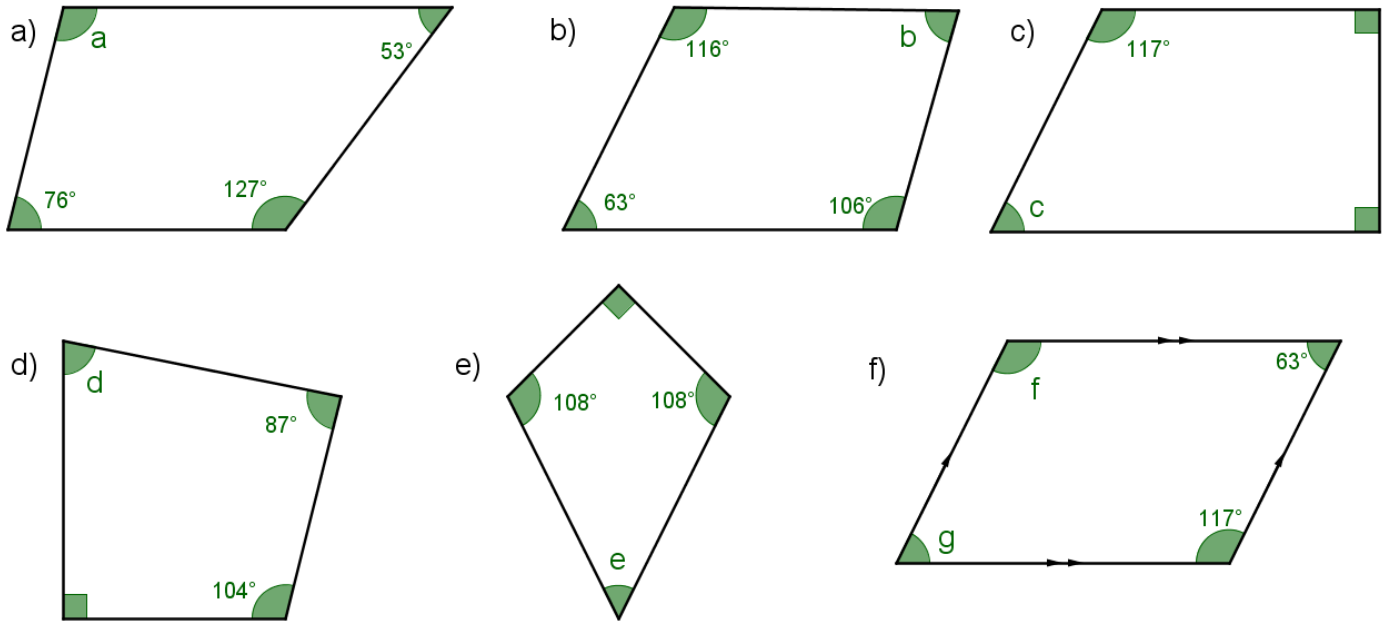
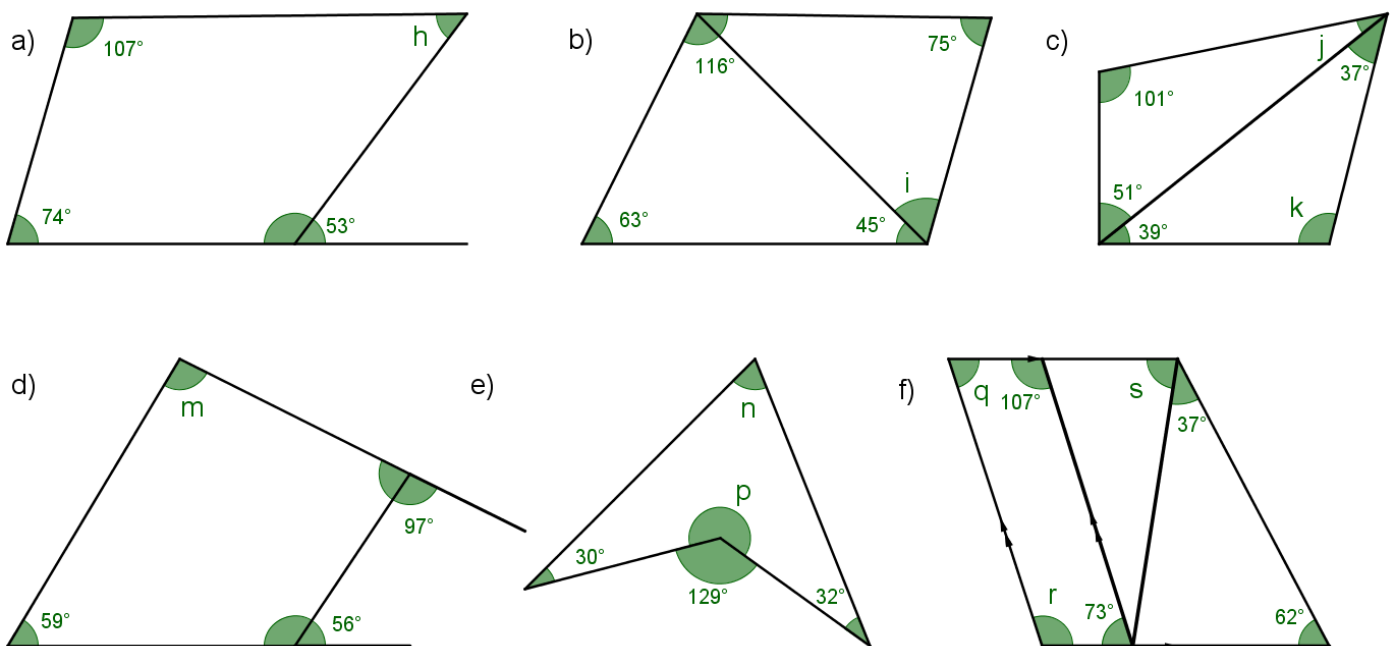


Angles in Quadrilaterals

Q1. Calculate the missing angle in each quadrilateral.



Q2. Calculate the missing angle in each diagram.



Q3.

- Two angles in a quadrilateral are 55° and 65° and the other two are equal. What size are the other two angles?
- An isosceles trapezium has an angle of 87° . What are the sizes of the other three angles?
- Simon measures the angles of a quadrilateral. He says the angles are 54° , 110° , 64° and 134° . Could he be right? Explain your answer.
- Clare measures the angles in a quadrilateral. She says two opposite angles are equal the other two are not. What type of quadrilateral was Clare measuring?

Angles in Quadrilaterals

Solutions

Q1.

a) $a = 104^\circ$

b) $b = 75^\circ$

c) $c = 63^\circ$

d) $d = 79^\circ$

e) $e = 54^\circ$

f) $f = 117^\circ, g = 63^\circ$

Q2.

a) $h = 53^\circ$

b) $i = 61^\circ$

c) $j = 28^\circ, k = 104^\circ$

d) $m = 94^\circ$

e) $n = 67^\circ, p = 231^\circ$

f) $q = 73^\circ, r = 107^\circ, s = 80^\circ$

Q3.

a) 120°

b) $87^\circ, 93^\circ$ and 93°

c) The angles in the quadrilateral would add to 362° not 360° .

d) A Kite.