



a Find x to 1 dp 10.8 cm a kite: the diagonal opposite	b Find θ to 1 dp 91.2° isosceles: the top angle	c Find x exactly $6\sqrt{2}$ cm the sine rule with exact values	d Find x exactly $\sqrt{7}$ cm the cosine rule with an exact value
e Find $\cos \theta$ $\cos \theta = \frac{1}{8}$ $\cos \theta$ exactly, as a fraction	f $AB = 10$ cm, $AC = 7$ cm, angle $B = 35^\circ$. Find both possible angles C to 1 dp. 55.0° or 125.0° the ambiguous case: two angles	g Find both possible values of x $x = 3$ or 5 the cosine rule to a quadratic	h Find x to 1 dp 4.6 cm a median: the cosine rule twice
i Find x $x = 5$ algebraic sides: reject the negative	j Find x exactly 2 cm the cosine rule with surds	k Find θ 120° a cyclic quadrilateral: $\cos(180^\circ - \theta)$	l $AB = 9$ cm, $AC = 6$ cm, angle $B = 40^\circ$. Find both possible lengths BC to 1 dp. 5.3 cm or 8.5 cm the ambiguous case: two lengths



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