



a Is a triangle with sides 7 cm, 9 cm and 12 cm right angled? <i>No: $130 \neq 144$</i> the converse of Pythagoras	b Find the perimeter 40 cm Pythagoras, then the perimeter	c Find the area 60 cm² a height for an area	d Find θ to 1 dp 32.0° an angle inside a rectangle
e A line joins (1, 1) and (7, 5). Find the angle it makes with the x axis to 1 dp 33.7° an angle from two points	f Find the area to 1 dp 23.5 cm² trig for two sides, then the area	g Find θ to 1 dp 67.5° isosceles: double the half angle	h Find the length BG to 1 dp 7.8 cm a diagonal on an upright face
i Find θ to 1 dp 63.4° a space diagonal and an upright edge	j Find x to 1 dp 5.8 cm a pyramid: the slant edge	k Find θ to 1 dp 53.1° a sloping face and the base	l Find θ to 1 dp 45.7° the angle with an upright face



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