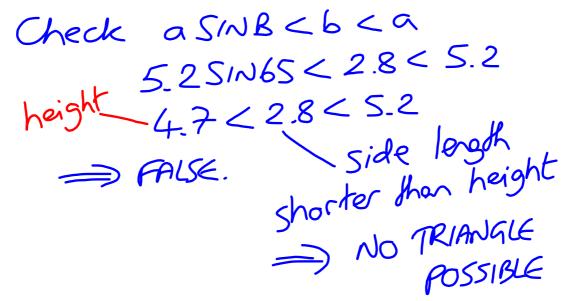
Solutions

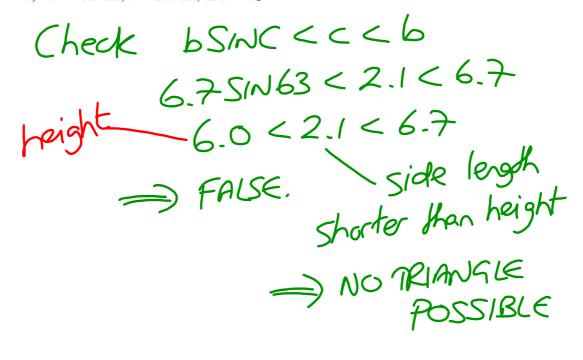
 3. Determine whether it is possible to draw a triangle, given each set of information. Sketch all possible triangles where appropriate. Label all side lengths to the nearest tenth of a centimetre and all angles to the nearest degree.

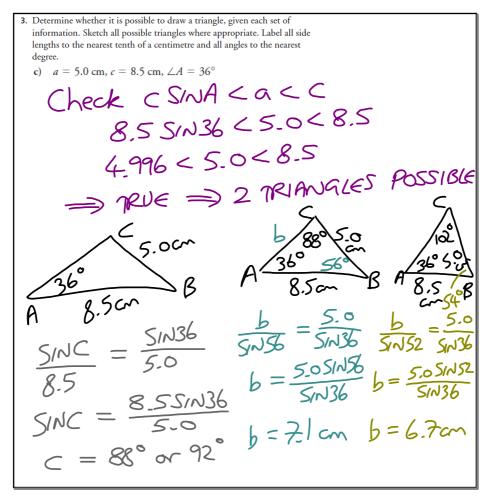
a)
$$a = 5.2 \text{ cm}, b = 2.8 \text{ cm}, \angle B = 65^{\circ}$$

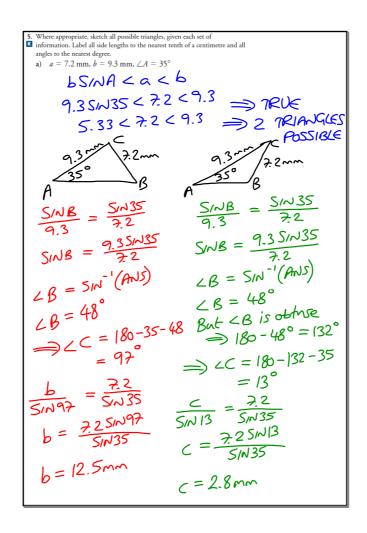


3. Determine whether it is possible to draw a triangle, given each set of information. Sketch all possible triangles where appropriate. Label all side lengths to the nearest tenth of a centimetre and all angles to the nearest degree.

b)
$$b = 6.7 \text{ cm}, c = 2.1 \text{ cm}, \angle C = 63^{\circ}$$







Where appropriate, sketch all possible triangles, given each set of information. Label all side lengths to the nearest tenth of a centimetre and all angles to the nearest degree.

b)
$$a = 7.3 \text{ m}, b = 14.6 \text{ m}, \angle A = 30^{\circ}$$

Check bS/NA < a < b

and
$$b = hypotenuse$$

$$c^{2} = 14.6^{2} - 7.3^{2}$$

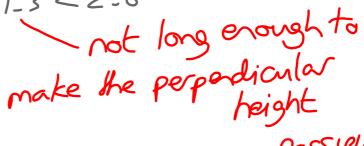
$$c^{2} = 159.87$$

$$c = 12.6 \text{ m}$$

- 5. Where appropriate, sketch all possible triangles, given each set of
- information. Label all side lengths to the nearest tenth of a centimetre and all angles to the nearest degree.

c)
$$a = 1.3 \text{ cm}, b = 2.8 \text{ cm}, \angle A = 33^{\circ}$$







5. Where appropriate, sketch all possible triangles, given each set of
information. Label all side lengths to the nearest tenth of a centimetre and all angles to the nearest degree.

d) c = 22.2 cm, $\angle A = 75^{\circ}$, $\angle B = 43^{\circ}$ We have 2 angles $= 62^{\circ}$ As we know all 3 angles, there is only

As we know all 3 angles, there is only

As we know all 3 angles, there is only $= 62^{\circ}$ As we know all 3 angles, there is only $= 62^{\circ}$ $= 62^{\circ}$ =