

Law of Sines

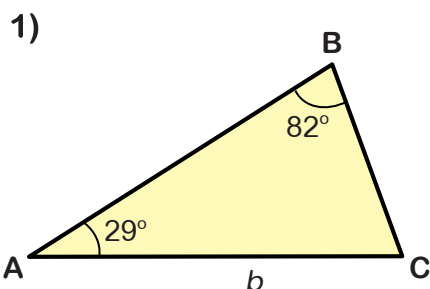
ANSWERS



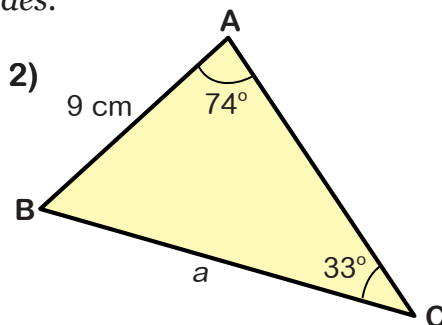
Give answers to 3 significant figures.

NOT TO SCALE

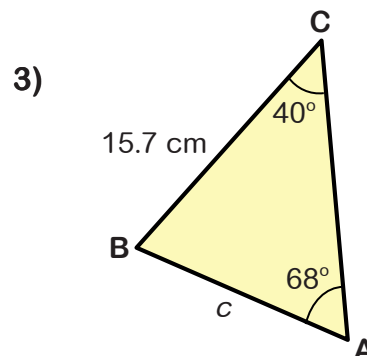
Section A Find the missing sides.



$$b = 12.3 \text{ cm}$$

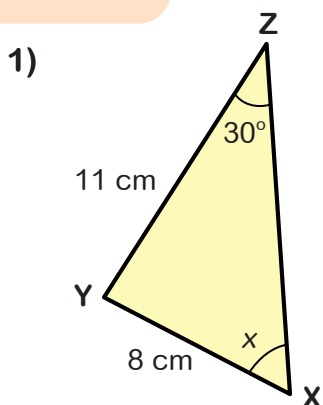


$$a = 15.9 \text{ cm}$$

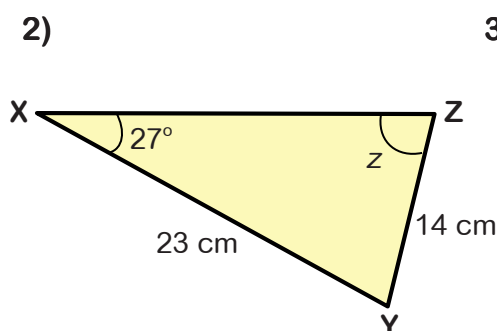


$$c = 10.9 \text{ cm}$$

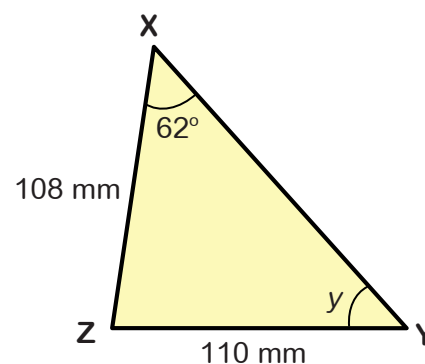
Section B Find the missing angles.



$$x = 43.4^\circ$$

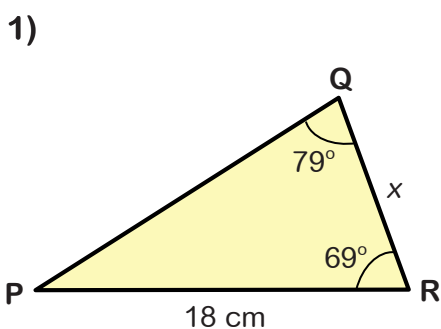


$$z = 48.2^\circ$$

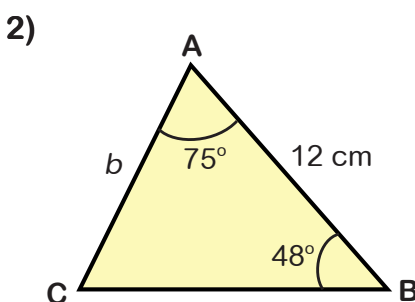


$$y = 60.1^\circ$$

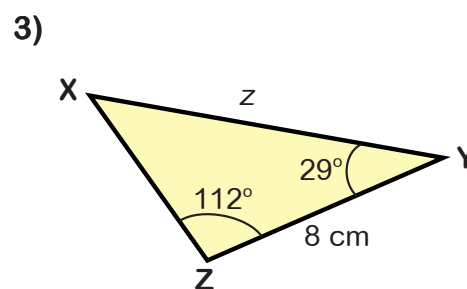
Section C Find the missing side.



$$x = 9.72 \text{ cm}$$



$$b = 10.6 \text{ cm}$$



$$z = 11.8 \text{ cm}$$

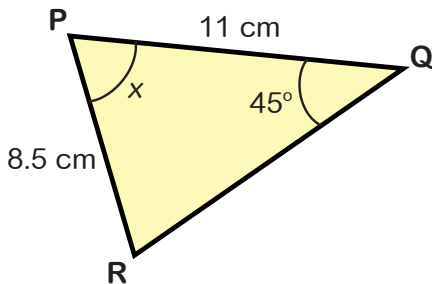
Law of Sines

ANSWERS



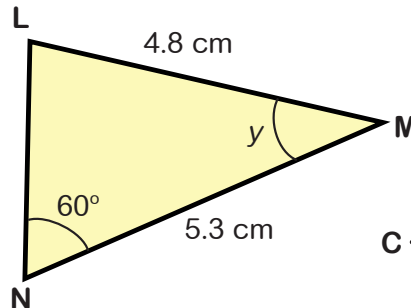
Section D Find the missing angle.

1)



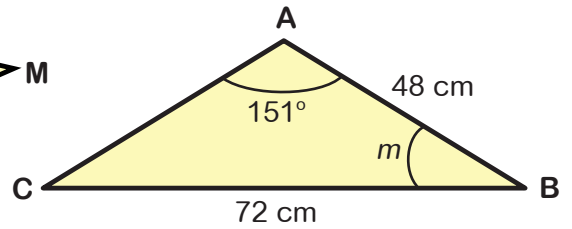
$$x = 68.8^\circ$$

2)



$$y = 47.0^\circ$$

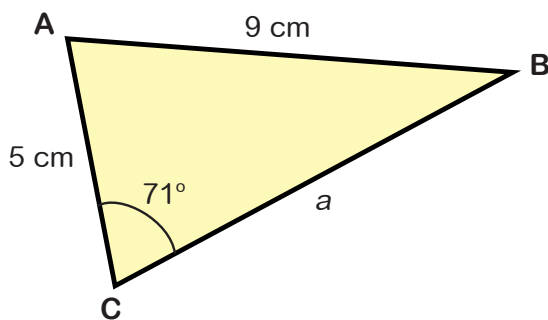
3)



$$m = 10.1^\circ$$

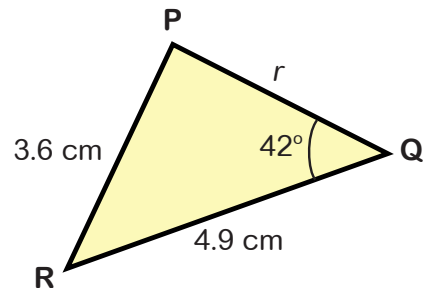
Section E Use the Law of Sines two times to find the missing side.

1)



$$a = 9.29 \text{ cm}$$

2)



$$r = 5.13 \text{ cm}$$