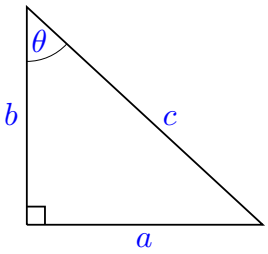
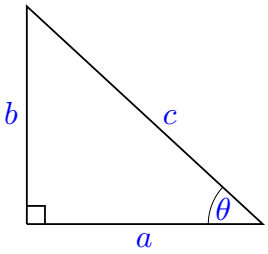
Trigonometry

i. Calculate the following lengths (give answers to 2 d.p.)



- The length of a, given that $c = 4cm$ and $\theta = 40°$
- The length of a, given that $c = 3cm$ and $\theta = 50°$
- The length of b, given that $a = 3.5cm$ and $\theta = 35°$
- The length of b, given that $c = 5cm$ and $\theta = 42°$
- The length of c, given that $a = 2cm$ and $\theta = 45°$

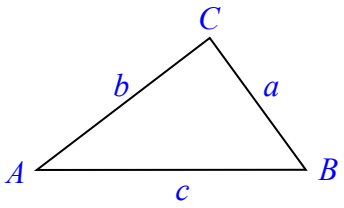
ii. Calculate the angle θ (give answers to 1 d.p.)



- Given that $a = 4cm$ and $b = 5cm$
- Given that $a = 4cm$ and $c = 6cm$
- Given that $b = 3cm$ and $c = 5cm$
- Given that $a = 3cm$ and $b = 2cm$
- Given that $a = 5cm$ and $c = 10cm$

iii. Use the sine rule to calculate the following: (give answers to 1 d.p.)

Remember: $\dfrac{a}{\sin A} = \dfrac{b}{\sin B} = \dfrac{c}{\sin C}$



- Given that $a = 4cm$, $A = 50°$ and $B = 40°$, find b
- Given that $b = 6cm$, $B = 40°$ and $C = 60°$, find b
- Given that $a = 3cm$, $b = 7cm$ and $B = 45°$, find A
- Given that $a = 2cm$, $c = 4cm$ and $A = 22°$, find C