Pythagoras' Theorem
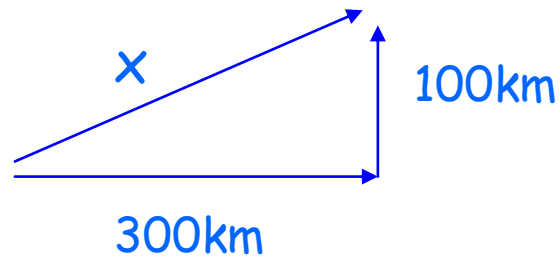
A ship sails 300km due West, then 100km due South.

At the end of this journey, how far is the ship from its starting position?

x 100km

300km

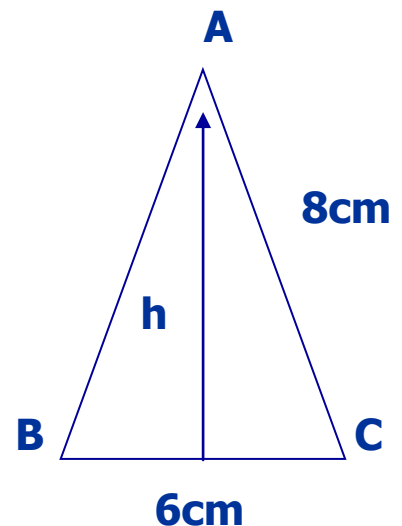**SPOT THE MISTAKES**

$X^2 = 300^2 - 100^2$

$= 90000 - 10000$

$= 80,000 \text{ km}$

ABC is an isosceles triangle.

a) Calculate the perpendicular height, h.

B) Hence calculate the area of this triangle

a) $h^2 = 8^2 + 6^2$

$= 64 + 36$

$= 100$

$h = \sqrt{100} = 10\text{cm}$

A

8cm

h

B   C

6cm

b) Area = 6 x 10 = 60cm