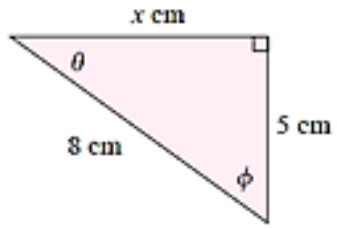
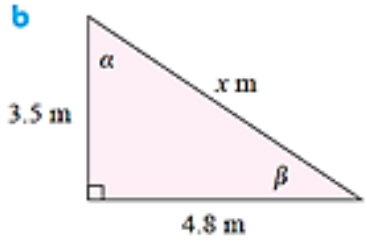
2 Find all the unknown sides and angles in the following:

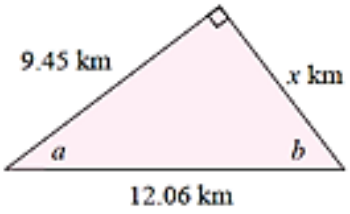
a



b



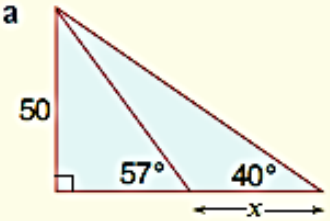
c



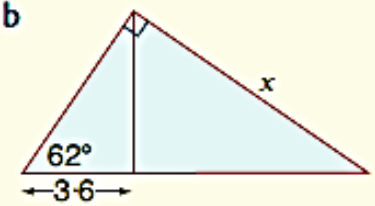
3 Check your answers for x in question **2** using Pythagoras' theorem.

5 Find x in each diagram. Give answers correct to 2 decimal places.

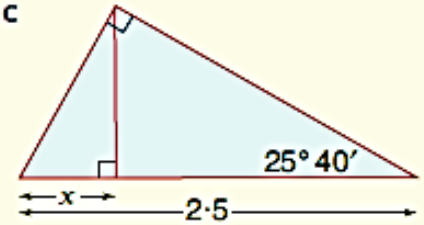
a



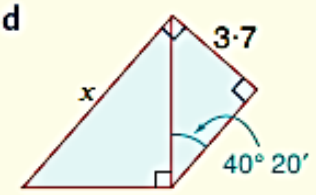
b



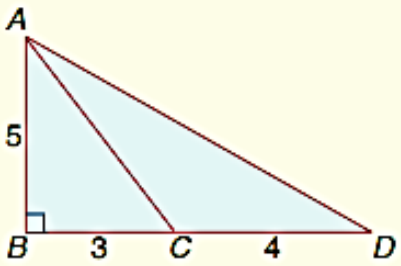
c



d

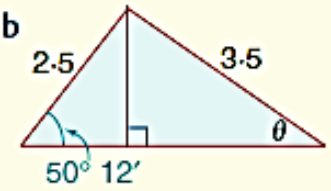


6 **a**



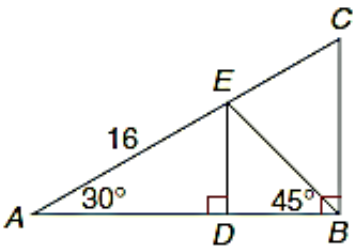
Find $\angle CAD$ to the nearest minute.

b



Find θ to the nearest minute.

11 Find the exact value of CE given that $AE = 16$.



12 In ΔABC, $AB = 12$, $\angle CAB = 60°$ and $\angle CBA = 75°$. Find as exact values:

a AC

b BC

c area of ΔABC