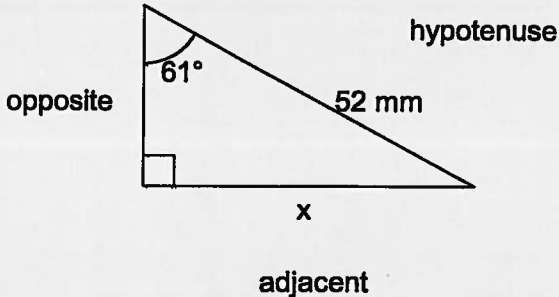
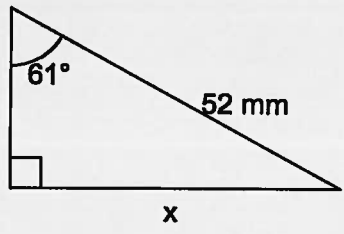
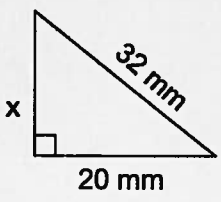
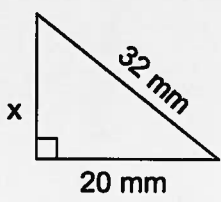
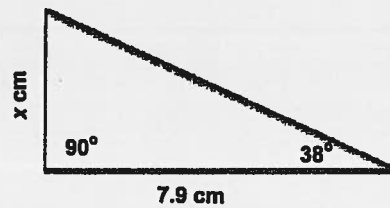


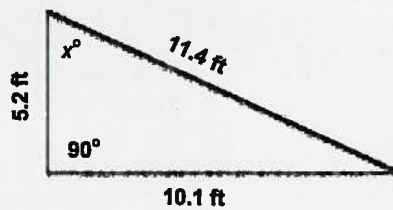
## 2.5.1: Going the Wrong Way

There are two problems shown below. For each problem, the answer provided is incorrect. Partner A will identify the errors in the given solutions. Partner B will write a correct solution to the problem.

Partner A	Partner B
<p>Solve for the missing side labelled x.</p>  <p>opposite</p> <p>hypotenuse</p> <p>61°</p> <p>52 mm</p> <p>x</p> <p>adjacent</p> $\cos 61^\circ = \frac{52}{x}$ $\frac{0.485}{1} = \frac{52}{x}$ $x = \frac{52}{0.485}$ $x = 107.2$	<p>Solve for the missing side labelled x.</p>  <p>opposite</p> <p>61°</p> <p>52 mm</p> <p>x</p>
<p>Solve for the missing side x.</p>  <p>x</p> <p>20 mm</p> <p>32 mm</p> $x^2 = 20^2 + 32^2$ $x^2 = 1424$ $x = \sqrt{1424}$ $x = 37.74$	<p>Solve for the missing side x.</p>  <p>x</p> <p>20 mm</p> <p>32 mm</p>

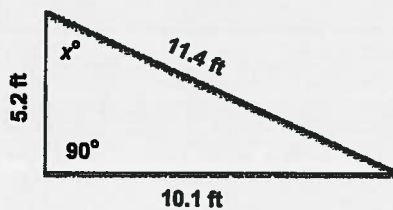
**Action!****In partners solve for  $x$ . Try and find more than one way to solve the problem.**

Action Page 1

**In partners solve for  $x$ . Try and find more than one way to solve the problem.**

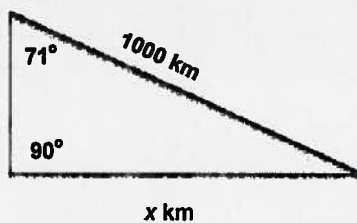
Action Page 2

**In partners solve for  $x$ . Try and find more than one way to solve the problem.**



Action Page 2

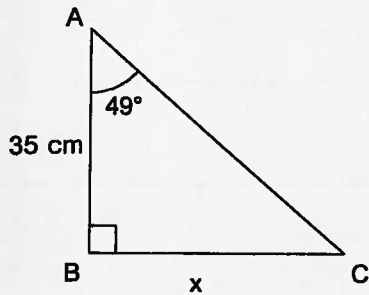
**In partners solve for  $x$ . Try and find more than one way to solve the problem.**



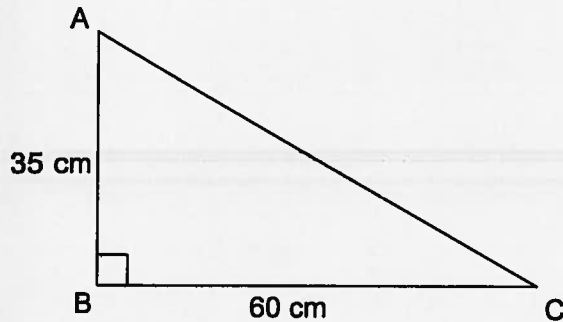
Action Page 3

## 2.5.2: Tangent or Something else

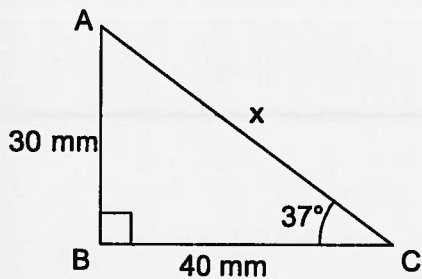
1. Decide whether to use tangent ratio or the Pythagorean relationship to find  $x$ . Solve for  $x$ .



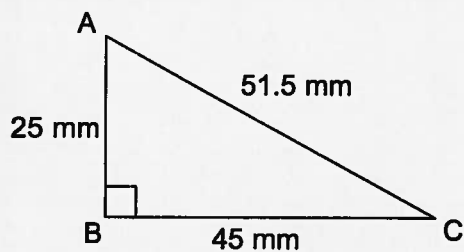
2. Decide whether to use the tangent ratio or the Pythagorean relation to find  $\angle A$ . Solve for  $\angle A$ .



3. Decide whether to use tangent ratio or the Pythagorean relationship to find  $x$ . Solve for  $x$ .



4. Decide whether to use the tangent ratio or the Pythagorean relation to find  $\angle C$ . Solve for  $\angle C$ .



### **Consolidate Debrief**

**In partners, come up with an example of a question that you need to use the SIN ratio to solve, an example of a question you need to use the COS ratio to solve and an example of a question you need to use the TAN ratio to solve.**

→ When Done Pg 88 # 5, 6 Pg 89 # 9, 10, 13, 15