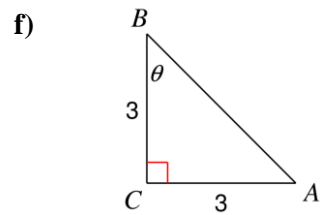
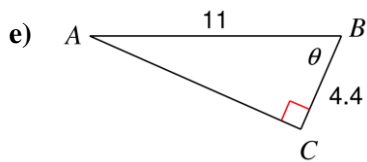
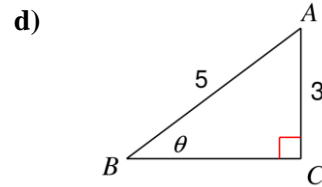
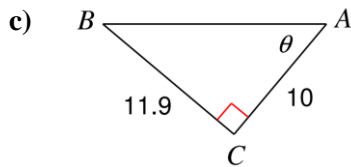
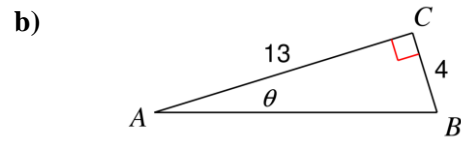
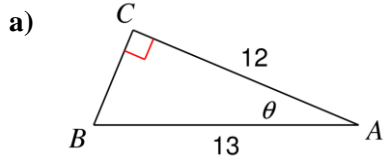
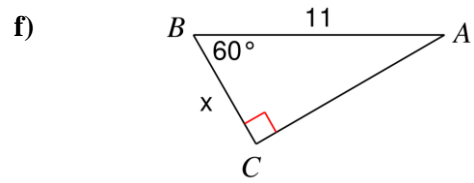
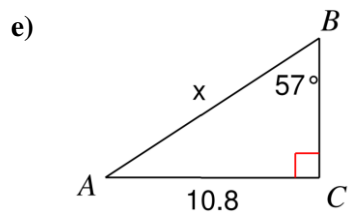
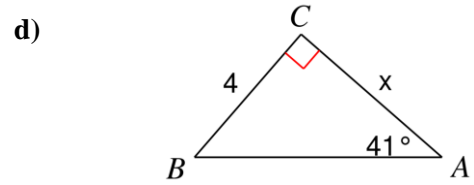
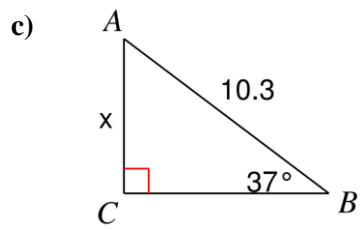
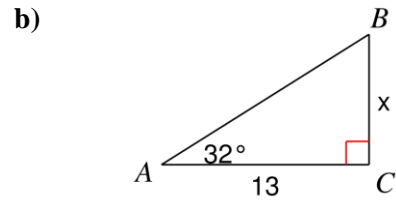
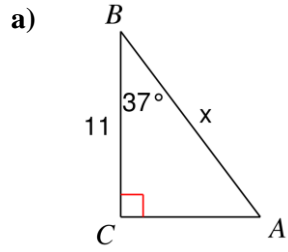


8.1C Solving Triangles Worksheet

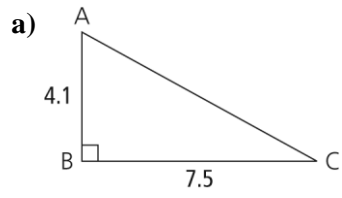
1. Find the measure of each angle indicated. Round to the nearest tenth.



2. Find the measure of each side indicated. Round to the nearest tenth.

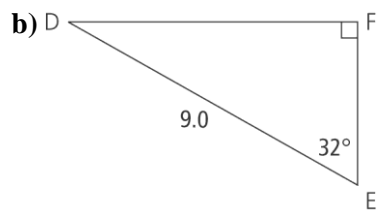


3. Solve each triangle. Express your answer to one decimal place.



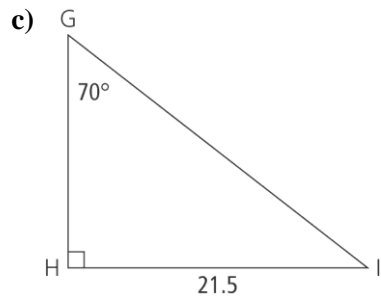
Inventory:

$\angle A =$ _____	$a =$ _____
$\angle B =$ _____	$b =$ _____
$\angle C =$ _____	$c =$ _____

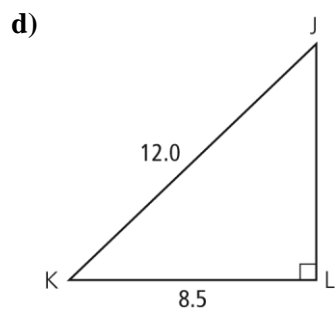


Inventory:

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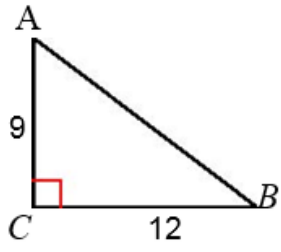
Inventory:



Inventory:

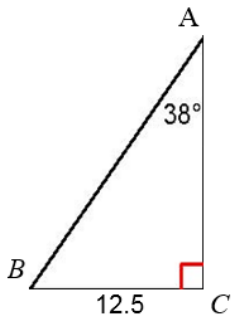


e)



Inventory:

f)



Inventory:

4. a) In $\triangle ABC$, $\angle A = 90^\circ$, $BC = 11.5$ cm, and $AB = 2.7$ cm. Determine the measure of $\angle B$, to the nearest degree.

b) In $\triangle DEF$, $\angle D = 90^\circ$, $DE = 1.6$ cm, and $\angle E = 42^\circ$. Determine the measure of EF , to the nearest tenth of a centimetre.

Answers:

1. a) 22.6° b) 17.1° c) 50.0° d) 36.9° e) 66.4° f) 45°

2. a) 13.8 b) 8.1 c) 6.2 d) 4.6 e) 12.9 f) 5.5

3. a) $\angle C = 28.7^\circ$, $\angle A = 61.3^\circ$, $b = 8.5$

b) $\angle D = 58^\circ$, $e = 4.8$, $d = 7.6$

c) $\angle I = 20^\circ$, $h = 22.9$, $i = 7.8$

d) $\angle K = 44.9^\circ$, $\angle J = 45.1^\circ$, $k = 8.5$

e) $\angle A = 53.1^\circ$, $\angle B = 36.9^\circ$, $c = 15$

f) $\angle B = 52^\circ$, $b = 16$, $c = 20.3$

4. a) 76° b) 2.2 cm