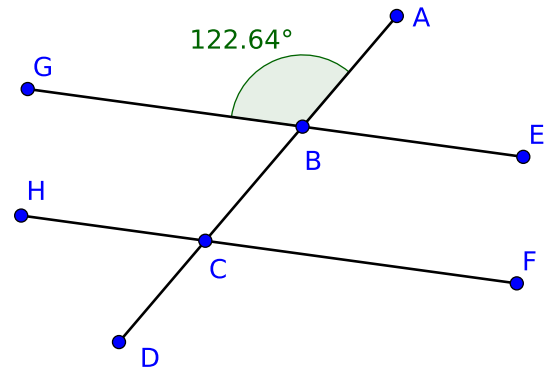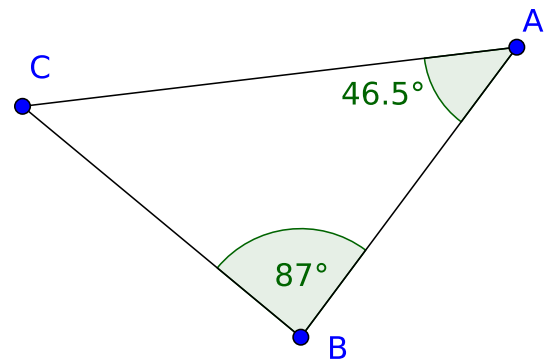# Section 1.2 - Angle Relationships, Similar Triangles
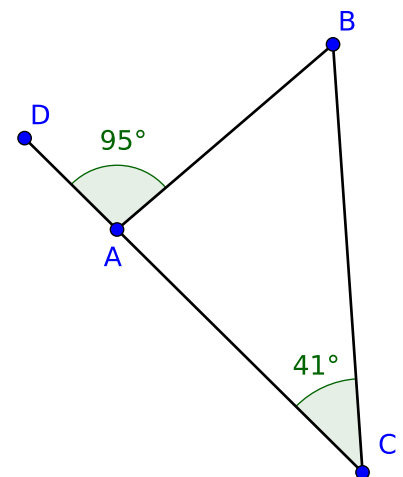
GEOMETRIC PROPERTIES

1. Find all angle measures on the diagram below.

2. Find all angle measures on the diagram below.
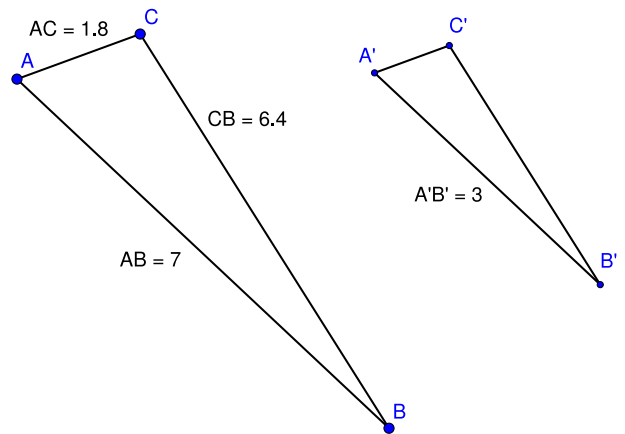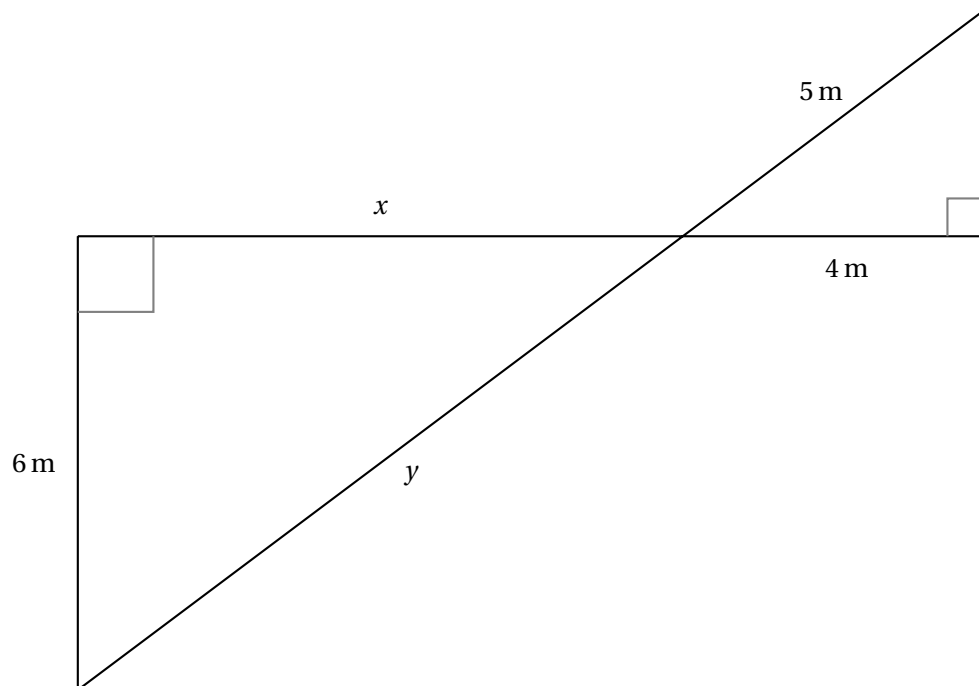

3. Find all angle measures on the diagram below.

SIMILAR TRIANGLES

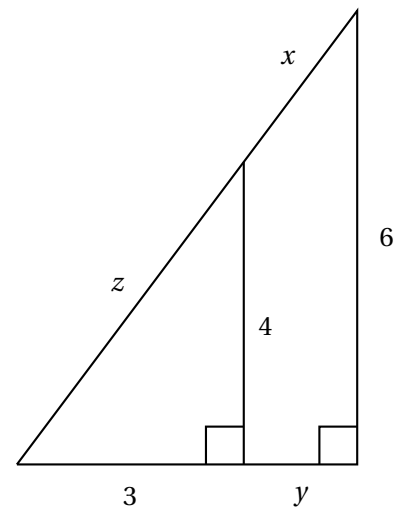4. Find the remaining sides of these two similar triangles.

AC = 1.8
C
A
CB = 6.4
C'
A'
A'B' = 3
AB = 7
B'
B

5. Find the lengths of x and y in the figure below. It would help to recall Pythagorean's Theorem for triangles.

5 m

x

4 m

6 m

y

5. Find the lengths for x and y in the figure to the right. It might help to recall Pythagorean's theorem for triangles.

x

z

6

4

3

y

5. If a tree casts a shadow that is 100 feet long, and a 6 foot tall person casts a shadow that is 5 feet long, what is the height of the tree?