1. Calculate the length of AB in each triangle.

a)

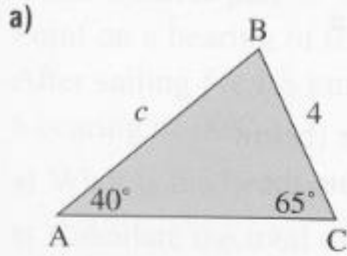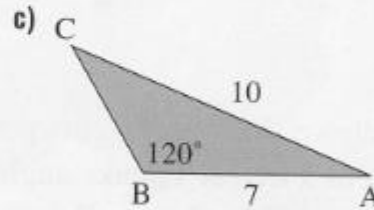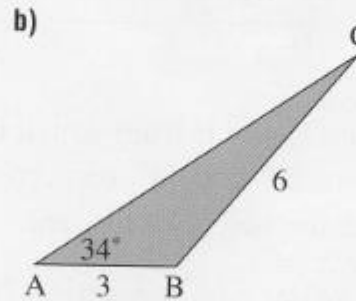B, c, 4, 40°, 65°, A, C

b)

A, 63°, c, 71°, C, 7, B

c)

C, 5, 40°, 100°, A, c, B
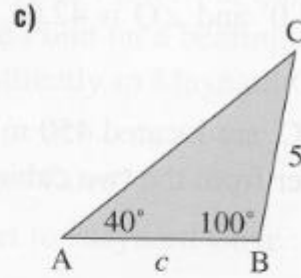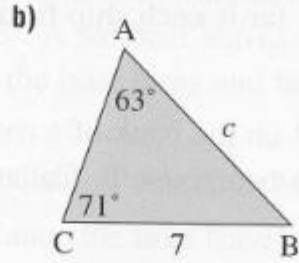
2. Choose one part of exercise 2. Explain how you calculated the length of AB.

3. Calculate the measure of ∠C in each triangle.

a)

A, 5, 8, 76°, B, C

b)

C, 6, 34°, A, 3, B

c)

C, 10, 120°, B, 7, A

4. Determine the measure of ∠B in each triangle.

a)

C, 1, 1, 60°, A, B

b)

C, 2, 1, 60°, A, B

c)

C, 3, 1, 60°, A, B
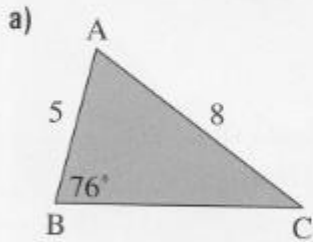
6.   The three triangles in #4 form a pattern. Draw the next triangle in the pattern, then determine the measure of ∠B.

8.   In △ABC, C is located 62.0 m from B. ∠ABC=74.0° and ∠ACB=48.0°. Determine the measure of side b.
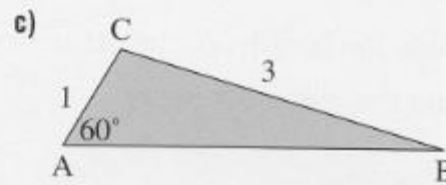
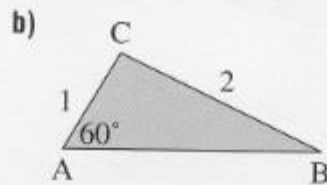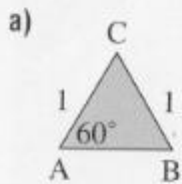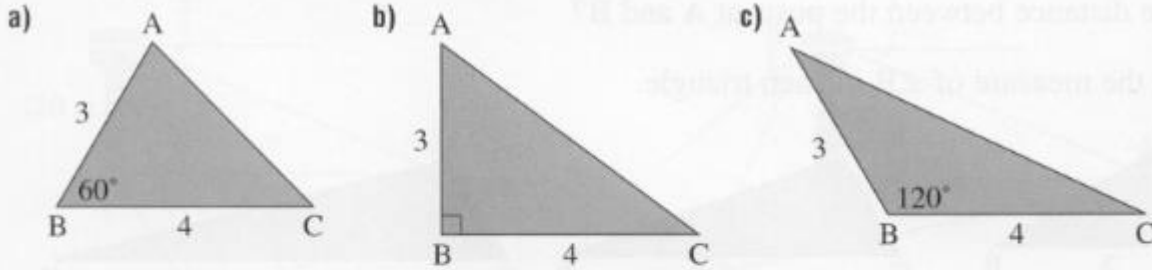**1.** Calculate the length of AC in each triangle.

a)

b)

c)

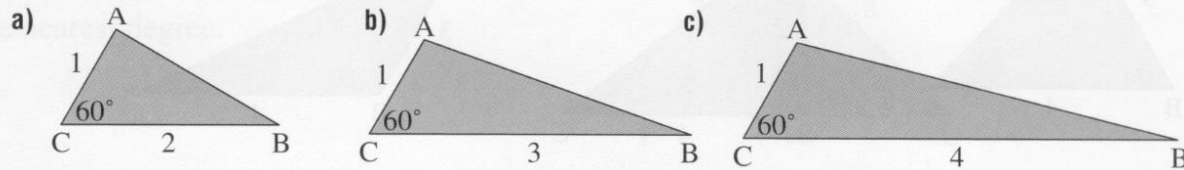**2.** Choose one part of exercise 1. Explain how you calculated the length of AC.

3. Calculate the measure of ∠A in each triangle.

a)

b)

c)
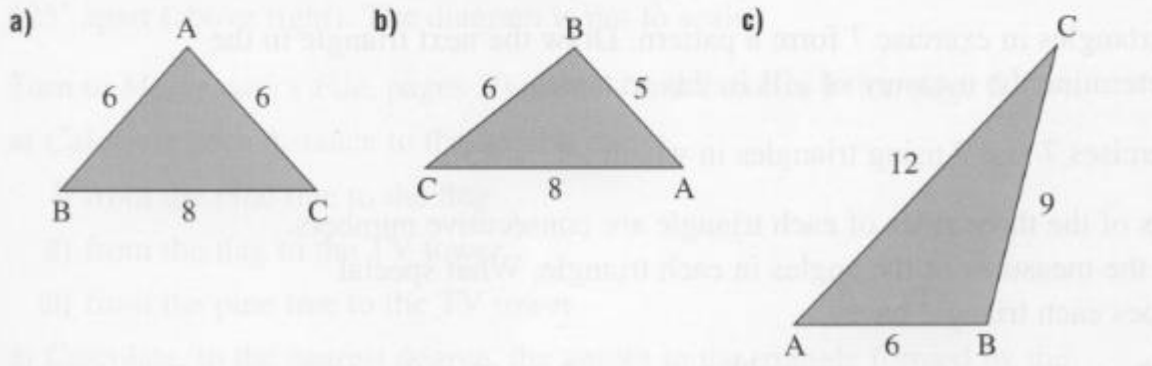
5. In ΔABC, the measure of ∠C=65.0°, AC=47.0 m and BC=38.0 m. Determine the length of AB.

7. Determine the measure of ∠B in each triangle.

a)

b)

c)

9. The three triangles in #7 form a pattern. Draw the next triangle in the pattern, then determine the measure of ∠B.