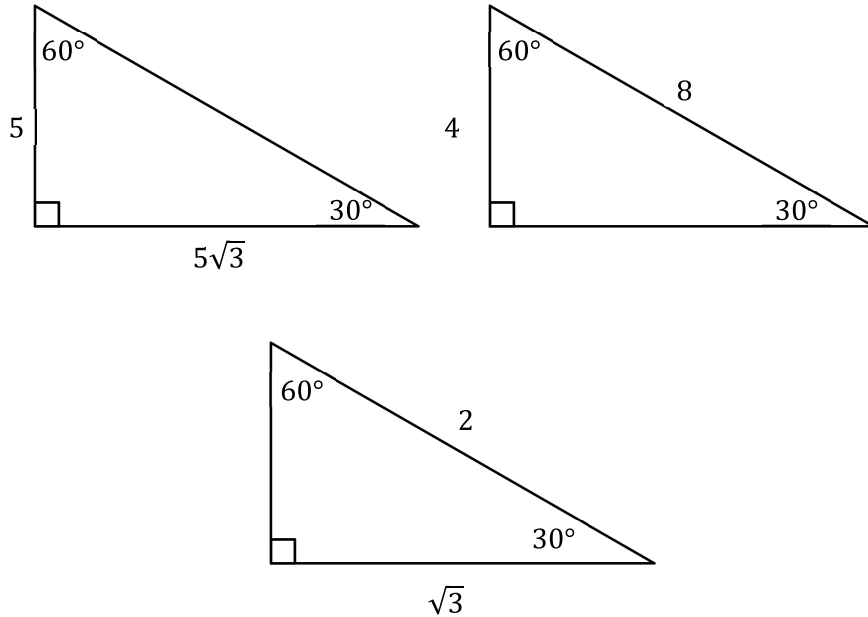


Section 8 – Topic 5
Special Right Triangles: 30° – 60° – 90°

Use the Pythagorean Theorem to find the missing lengths of the following triangles.



Choose three patterns that you observe in the three right triangles above and list them below.

Let's Practice!

1. The length of a hypotenuse of a 30–60–90 right triangle is 17 *yds.* Find the other two lengths.

Try It!

2. A right triangle has a leg with a length of 34 and a hypotenuse with a length of 68. A student notices that the hypotenuse is twice the length of the given leg, which means it is a 30–60–90 triangle. If the student is correct, what should the length of the remaining leg be? Explain your answer. Confirm your answer using the Pythagorean Theorem.

