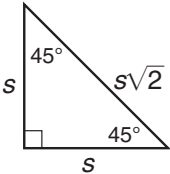
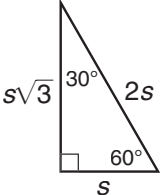
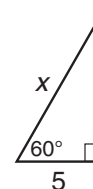


**SKILL**
**32**
**Skills Readiness**
**Special Right Triangles**

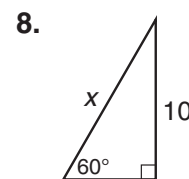
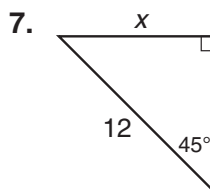
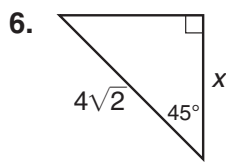
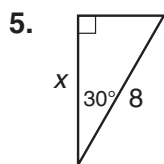
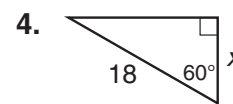
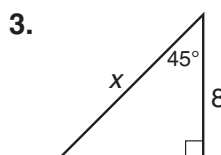
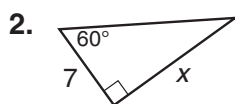
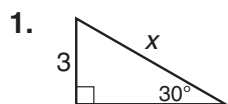
45°-45°-90° Triangles	30°-60°-90° Triangles
1. Both legs are congruent. 2. The length of the hypotenuse is $\sqrt{2}$ times the length of a leg.	1. The length of the hypotenuse is twice the length of the shorter leg. 2. The length of the longer leg is $\sqrt{3}$ times the length of the shorter leg.
	

Example: Find the value of  $x$ . Give the answer in simplest radical form.

Answer: In a 30°-60°-90° triangle, the length of the hypotenuse is twice the length of the shorter leg. So solve:  $x = 2(5)$  or  $x = 10$ .


**Practice on Your Own**

Find the value of  $x$ . Give the answer in simplest radical form.


**Check**

Find the value of  $x$ .

