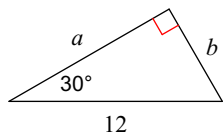


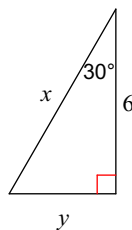
# Special Right Triangles

**Find the missing side lengths. Leave your answers as radicals in simplest form.**

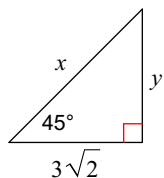
1)



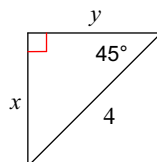
2)



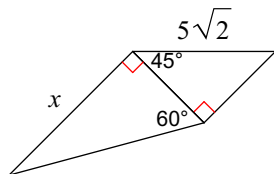
3)



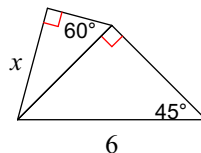
4)



5)



6)



**Simplify.**

7)  $\sqrt{216}$

8)  $\sqrt{600}$

9)  $2\sqrt{6} \cdot \sqrt{12}$

10)  $\sqrt{10} \cdot 2\sqrt{20}$

## Answers to Special Right Triangles (ID: 1)

1)  $a = 6\sqrt{3}$ ,  $b = 6$

5)  $5\sqrt{3}$

9)  $12\sqrt{2}$

2)  $x = 4\sqrt{3}$ ,  $y = 2\sqrt{3}$

6)  $\frac{3\sqrt{6}}{2}$

10)  $20\sqrt{2}$

3)  $x = 6$ ,  $y = 3\sqrt{2}$

7)  $6\sqrt{6}$

4)  $x = 2\sqrt{2}$ ,  $y = 2\sqrt{2}$

8)  $10\sqrt{6}$