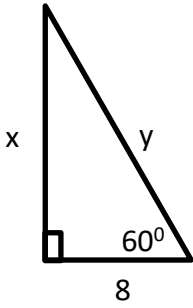
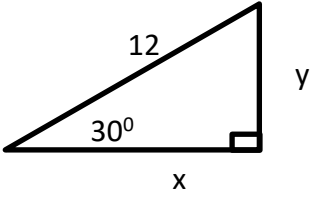
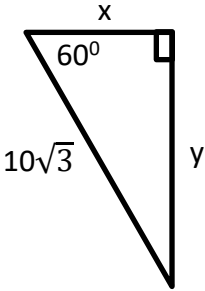
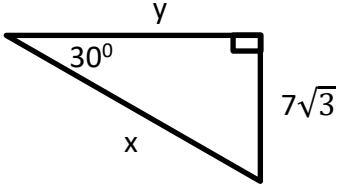
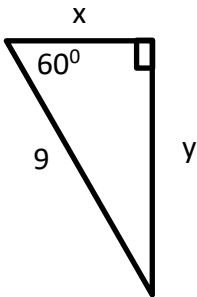
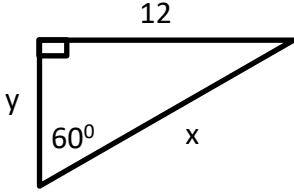
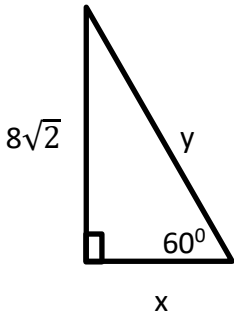
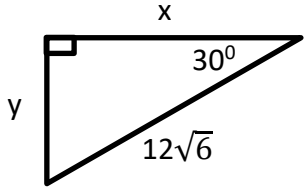
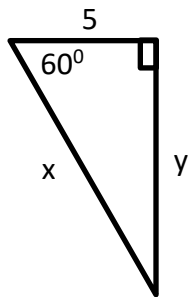


Name \_\_\_\_\_

Date \_\_\_\_\_

**30-60-90**

Find each indicated variable. All answers should be in simplest radical form.

|                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>A right-angled triangle with a 60° angle at the bottom right. The vertical leg is labeled <math>x</math>, the horizontal leg is labeled <math>8</math>, and the hypotenuse is labeled <math>y</math>. A right angle symbol is at the bottom left.</p>           |  <p>A right-angled triangle with a 30° angle at the bottom left. The horizontal leg is labeled <math>x</math>, the vertical leg is labeled <math>y</math>, and the hypotenuse is labeled <math>12</math>. A right angle symbol is at the bottom right.</p>     |  <p>A right-angled triangle with a 60° angle at the top left. The horizontal leg is labeled <math>x</math>, the vertical leg is labeled <math>y</math>, and the hypotenuse is labeled <math>10\sqrt{3}</math>. A right angle symbol is at the top right.</p> |
|  <p>A right-angled triangle with a 30° angle at the top left. The horizontal leg is labeled <math>y</math>, the vertical leg is labeled <math>7\sqrt{3}</math>, and the hypotenuse is labeled <math>x</math>. A right angle symbol is at the top right.</p>        |  <p>A right-angled triangle with a 60° angle at the top left. The horizontal leg is labeled <math>x</math>, the vertical leg is labeled <math>y</math>, and the hypotenuse is labeled <math>9</math>. A right angle symbol is at the top right.</p>           |  <p>A right-angled triangle with a 60° angle at the bottom left. The horizontal leg is labeled <math>12</math>, the vertical leg is labeled <math>y</math>, and the hypotenuse is labeled <math>x</math>. A right angle symbol is at the top left.</p>      |
|  <p>A right-angled triangle with a 60° angle at the bottom right. The vertical leg is labeled <math>8\sqrt{2}</math>, the horizontal leg is labeled <math>x</math>, and the hypotenuse is labeled <math>y</math>. A right angle symbol is at the bottom left.</p> |  <p>A right-angled triangle with a 30° angle at the top right. The horizontal leg is labeled <math>x</math>, the vertical leg is labeled <math>y</math>, and the hypotenuse is labeled <math>12\sqrt{6}</math>. A right angle symbol is at the top left.</p> |  <p>A right-angled triangle with a 60° angle at the top left. The horizontal leg is labeled <math>5</math>, the vertical leg is labeled <math>y</math>, and the hypotenuse is labeled <math>x</math>. A right angle symbol is at the top right.</p>        |