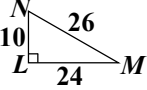
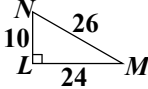
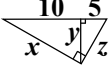
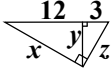
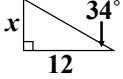
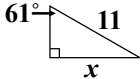
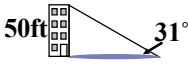

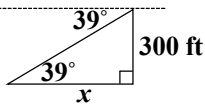
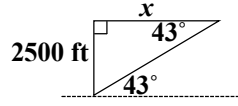
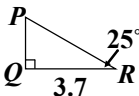
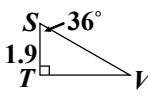
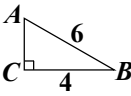
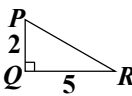


Looking Ahead: Geometry Unit 8

The questions below are examples of the type of questions you'll see on your **Semester 2 Final**. This is how these tests will ask you to apply your skills from **Unit 8**, as well as your common sense math skills. They are structured in a way that is deliberately complicated, but the skills are the same as what you have learned up to this point.

Semester 2 Final Examples

1.	<p>Write the trigonometric ratio for $\cos M$ as a fraction.</p> 	5.	<p>Write the trigonometric ratio for $\tan M$ as a fraction.</p> 
2.	<p>Use a special right triangle to write $\sin 45^\circ$ as a fraction.</p>	6.	<p>Use a special right triangle to write $\cos 30^\circ$ as a fraction.</p>
3.	<p>Determine the value of y.</p> 	7.	<p>Determine the value of y.</p> 
4.	<p>Write the trigonometric ratio and solve for x.</p> 	8.	<p>Write the trigonometric ratio and solve for x.</p> 

<p>9. Approximately how long is the building's shadow (round to the nearest tenth)?</p> 	<p>13. Approximately how long is the tree's shadow (round to the nearest tenth)?</p> 
<p>10. A ranger spots a fire from the top of a watchtower that is 300 ft tall. If the angle of depression from the top of the watchtower to the fire is 39°, what is the horizontal distance between them? Round to the nearest foot.</p> 	<p>14. A man spots the plane from the ground at an angle of elevation of 43°. If the plane is traveling at an altitude of 2500 ft, what is the horizontal distance between the man and the plane? Round to the nearest foot.</p> 
<p>11. Determine the length of PR. Round to the nearest hundredth.</p> 	<p>15. Determine the length of TV. Round to the nearest hundredth.</p> 
<p>12. In the given triangle, $AB = 6$ and $BC = 4$.</p>  <p>Determine $\tan B$.</p>	<p>16. In the given triangle, $PQ = 2$ and $QR = 5$.</p>  <p>Determine $\sin R$.</p>