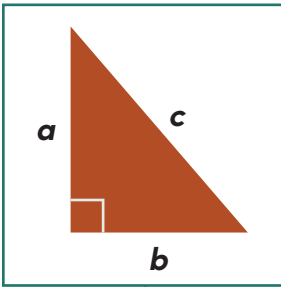


# CONVERSE OF THE PYTHAGOREAN THEOREM: IS IT A RIGHT TRIANGLE?



The converse of the Pythagorean theorem states that if  $a^2 + b^2 = c^2$ , then the triangle is a right triangle.

Use the converse of the Pythagorean theorem to determine if each triangle described below is a right triangle. Circle **yes** or **no** to show your answer.

<p><b>1.</b> A triangle has sides with lengths of 4 inches, 5 inches, and 6 inches. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>	<p><b>2.</b> A triangle has sides with lengths of 5 meters, 12 meters, and 13 meters. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>
<p><b>3.</b> A triangle has sides with lengths of 8 feet, 15 feet, and 17 feet. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>	<p><b>4.</b> A triangle has sides with lengths of 9 centimeters, 10 centimeters, and 14 centimeters. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>
<p><b>5.</b> A triangle has sides with lengths of 12 inches, 8 inches, and 15 inches. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>	<p><b>6.</b> A triangle has sides with lengths of 16 feet, 12 feet, and 20 feet. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>
<p><b>7.</b> A triangle has sides with lengths of 9 meters, 41 meters, and 40 meters. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>	<p><b>8.</b> A triangle has sides with lengths of 11 feet, 61 feet, and 60 feet. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>
<p><b>9.</b> A triangle has sides with lengths of 72 meters, 32 meters, and 60 meters. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>	<p><b>10.</b> A triangle has sides with lengths of 50 inches, 14 inches, and 48 inches. Is it a right triangle?</p> <p style="text-align: center;"><b>yes</b>                      <b>no</b></p>