

The Pythagorean Theorem says that  $a^2 + b^2 = c^2$ , where  $a$  and  $b$  are the lengths of the legs of a right triangle, and  $c$  is the length of the hypotenuse. In the given triangle, the legs are  $x$  and 4, and the hypotenuse (opposite the right angle) is 5.