## 7.5

# CONVERSE OF THE PYTHAGOREAN THEOREM

### The Converse of the Pythagorean Theorem

If it has 3 sides, then it is a triangle.

Converse

If \_\_\_\_\_\_, then \_\_\_\_\_\_

If it is a right triangle, then  $a^2+b^2=c^2$  works.

If \_\_\_\_\_, then \_\_\_\_

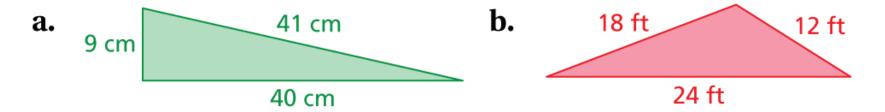
### The Converse of the Pythagorean Theorem

In a triangle if  $a^2 + b^2 = c^2$  works, then the triangle is a \_\_\_\_\_\_.

Determine if the triangle with the given side lengths is a right triangle.

2) 
$$5, 6, \sqrt{11}$$

## Tell whether each triangle is a right triangle.



Determine if the triangle with the given side lengths is a right triangle.

c. Triangle with sides 9, 7, 10

d. Triangle with sides 10, 6, 13

e. Triangle with sides 13, 5, 12