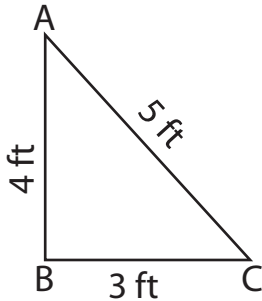


Name : _____

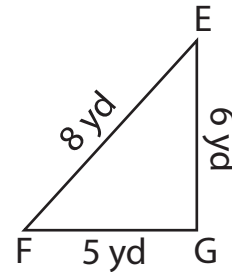
Identify the right triangles

Apply the Pythagorean theorem. Find whether each triangle has a right angle.

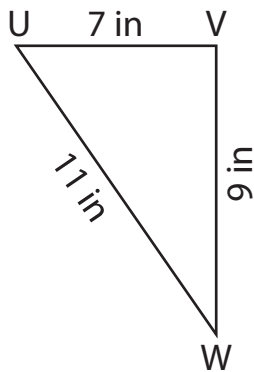
1)



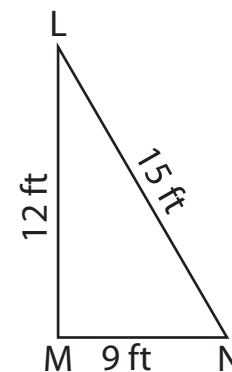
2)



3)



4)



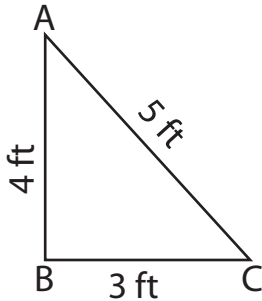
5) In triangle XYZ, the sides XY, YZ and XZ measure 12 ft, 16 ft and 20 ft respectively. Prove that XYZ is a right triangle.

6) In triangle PQR, the sides PQ, QR and PR measure 15 in, 20 in and 25 in respectively. Prove that PQR is a right triangle.

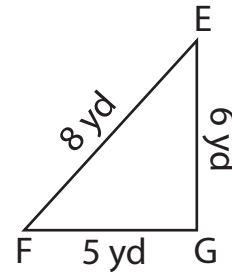
Identify the right triangles

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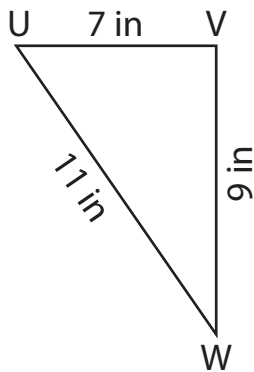
1)

**right triangle**

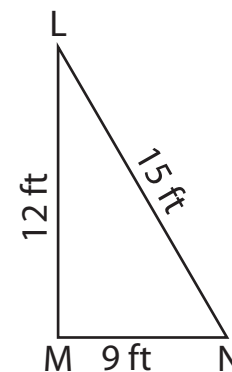
2)

**not a right triangle**

3)

**not a right triangle**

4)

**right triangle**

- 5) In triangle XYZ, the sides XY, YZ and XZ measure 12 ft, 16 ft and 20 ft respectively. Prove that XYZ is a right triangle.

$$XY^2 = 144 \text{ ft}, YZ^2 = 256 \text{ ft}, XZ^2 = 400 \text{ ft}$$

$$XY^2 + YZ^2 = XZ^2$$

XYZ is a right triangle.

- 6) In triangle PQR, the sides PQ, QR and PR measure 15 in, 20 in and 25 in respectively. Prove that PQR is a right triangle.

$$PQ^2 = 225 \text{ in}, QR^2 = 400 \text{ in}, PR^2 = 625 \text{ in}$$

$$PQ^2 + QR^2 = PR^2$$

PQR is a right triangle.