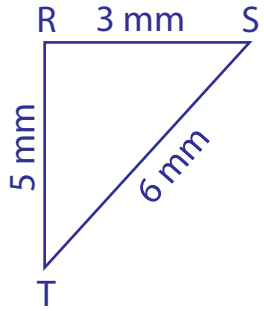
Name : _____ Score : _____

Identify the right triangles

Sheet 2

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

1)



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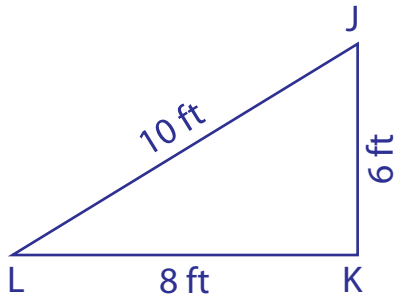
2)



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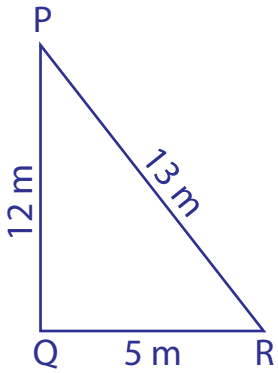
3)



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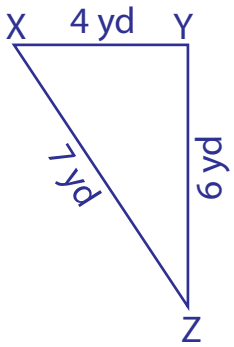
4)



_____

5) In triangle ABC, the sides AB, BC and AC measure 24 cm, 10 cm and 26 cm respectively. Prove that ABC is a right triangle.

_____

6) In triangle EFG, the sides EF, FG and EG measure 15 m, 17 m and 8 m respectively. Prove that EFG is a right triangle.

_____

Name : _____ Score : _____

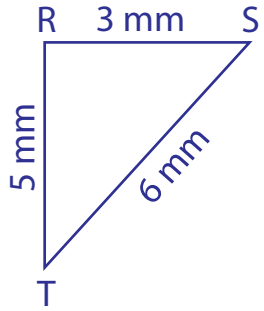
Answer Key

Identify the right triangles

Sheet 2

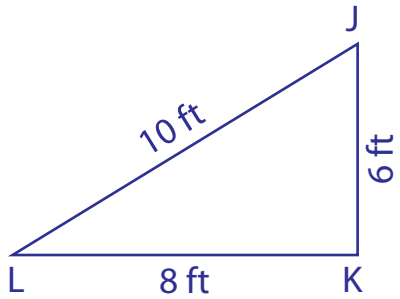
Apply the Pythagorean theorem. Find whether each triangle has a right angle.

1)



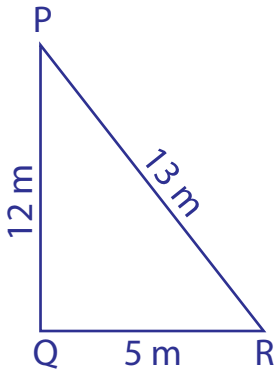
not a right triangle

2)



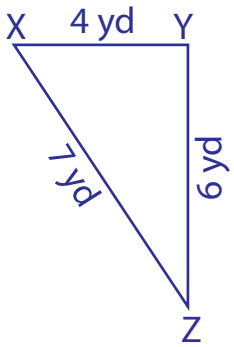
right triangle

3)



right triangle

4)



not a right triangle

5) In triangle ABC, the sides AB, BC and AC measure 24 cm, 10 cm and 26 cm respectively. Prove that ABC is a right triangle.

$AB^2 = 576$ cm, $BC^2 = 100$ cm, $AC^2 = 676$ cm

$AB^2 + BC^2 = AC^2$

ABC is a right triangle.

6) In triangle EFG, the sides EF, FG and EG measure 15 m, 17 m and 8 m respectively. Prove that EFG is a right triangle.

$EF^2 = 225$ m, $FG^2 = 289$ m, $EG^2 = 64$ m

$EF^2 + EG^2 = FG^2$

EFG is a right triangle.