Pythagorean Theorem

Write whether the following lengths form a right triangle by applying the Pythagorean theorem.

1)

4 yd   6 yd

3.5 yd

_____

2)

5 ft   4 ft

3 ft

_____

3)

5 in

12 in   13 in

_____

4)

9 in   4 in

7 in

_____

Write whether the given side lengths a, b, and c form a right triangle by using the Pythagorean theorem.

5)   a = 8 ft, b = 15 ft, c = 17 ft

_____

6)   a = 12 in, b = 4 in, c = 10 in

_____

7)   a = 20 yd, b = 13 yd, c = 31 yd

_____

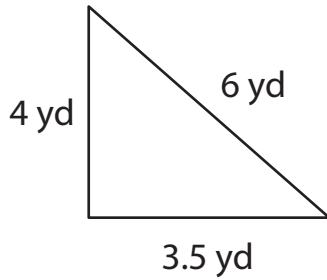8)   a = 11 ft, b = 60 ft, c = 61 ft

_____

Pythagorean Theorem

Name _____

Score _____

Answer key

PT:01

Write whether the following lengths form a right triangle by applying the Pythagorean theorem.
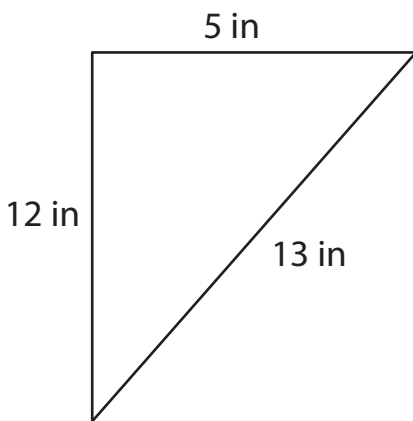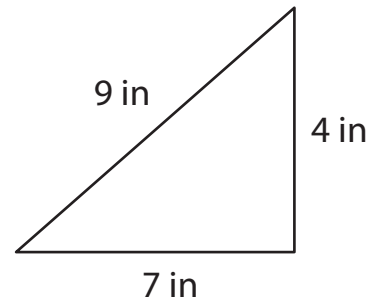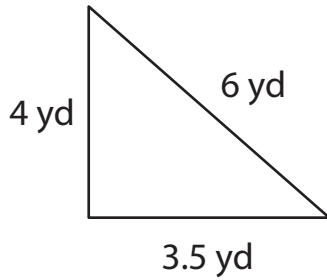
1)
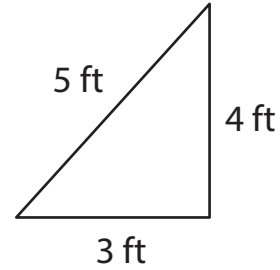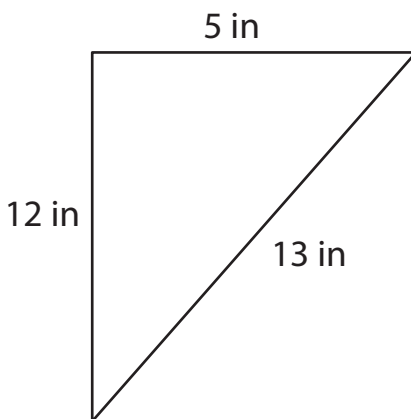
4 yd   6 yd

3.5 yd

Not a right triangle

2)

5 ft   4 ft

3 ft

Right triangle
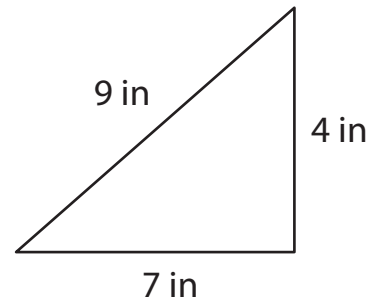
3)

5 in

12 in   13 in

Right triangle

4)

9 in   4 in

7 in

Not a right triangle

Write whether the given side lengths a, b, and c form a right triangle by using the Pythagorean theorem.

5)   a = 8 ft, b = 15 ft, c = 17 ft

Right triangle

6)   a = 12 in, b = 4 in, c = 10 in

Not a right triangle

7)   a = 20 yd, b = 13 yd, c = 31 yd

Not a right triangle

8)   a = 11 ft, b = 60 ft, c = 61 ft

Right triangle