Pythagorean Theorem

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

1)

15 ft   9 ft

12 ft

_____

2)

6 in

7 in   5 in

_____

3)

10 yd

3 yd

7 yd

_____

4)

10 ft

8 ft

6 ft

_____

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

5)   a = 13 yd, b = 84 yd, c = 85 yd

_____

6)   a = 7 ft, b = 24 ft, c = 25 ft

_____

7)   a = 6 in, b = 5 in, c = 9 in

_____

8)   a = 17 yd, b = 8 yd, c = 12 yd

_____

Pythagorean Theorem

Answer key

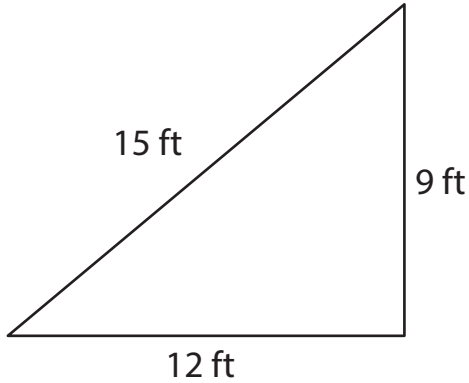Name _____

Score _____

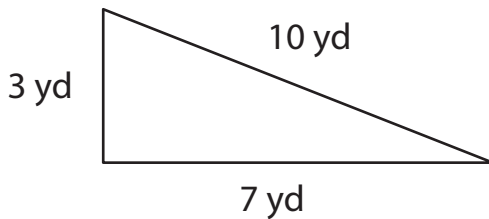Write whether the following lengths form a right triangle by applying the Pythagorean theorem.

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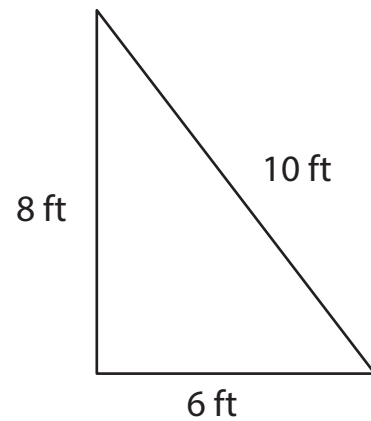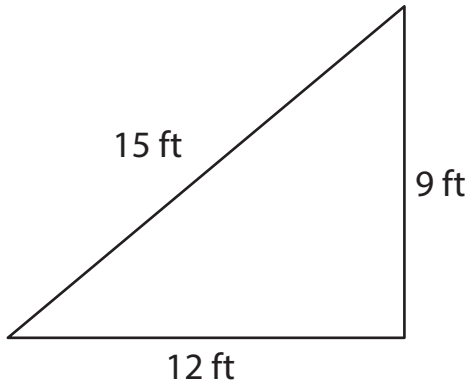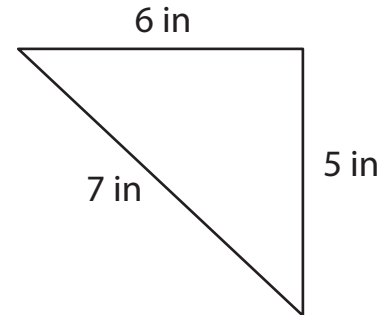**Right triangle**

2)

6 in

5 in

7 in

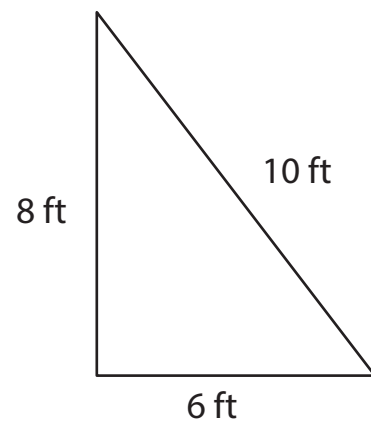**Not a right triangle**

3)

10 yd

3 yd

7 yd
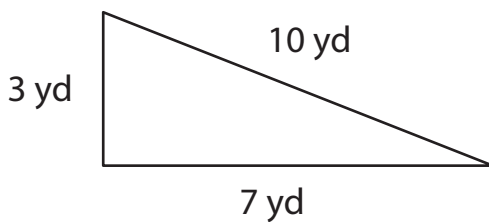
Not a right triangle

4)

10 ft

8 ft

6 ft

Right triangle

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

5)   a = 13 yd, b = 84 yd, c = 85 yd

Right triangle

6)   a = 7 ft, b = 24 ft, c = 25 ft

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7)   a = 6 in, b = 5 in, c = 9 in

Not a right triangle

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Not a right triangle