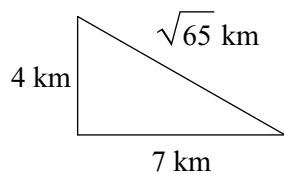CC8
Name_____ ID: 1

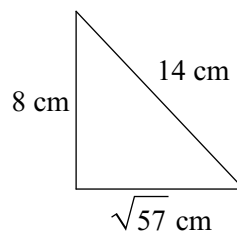# Pythagorean Theorem Review

Date_____ Period____

State if each triangle is acute, obtuse, or right. Show all work.
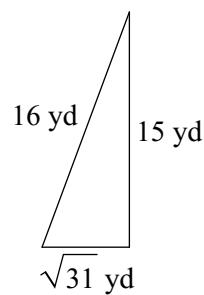
1)

4 km, $\sqrt{65}$ km, 7 km
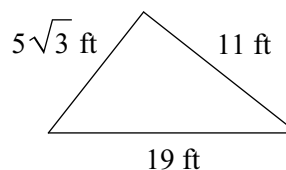
2)

8 cm, 14 cm, $\sqrt{57}$ cm

State if each triangle is right. Show all work.

3)

16 yd, 15 yd, $\sqrt{31}$ yd

4)

$5\sqrt{3}$ ft, 11 ft, 19 ft

Find the missing side. Give both the exact and approxiamate answer. Show all work.

5) $b = 10$ m, $c = 16$ m

6) $a = 8$ m, $b = 9$ m

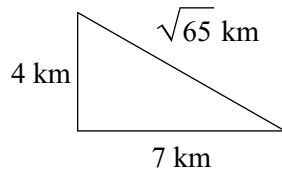**Draw a picture, labeling the triangle, write and solve an equation, and then answer the question with a statement.**

7) Andy likes to skate at a movie theater that is due south of his school and due west of his favorite game store. If the movie theater is 4 miles from his school and the straight-line distance between the school and the game store is 9 miles, how far is the movie theater from the game store? If necessary, round to the nearest tenth.

8) Diego is playing on the slide. Over and over, he climbs the 6-foot ladder, goes down the slide, and walks 3 feet to get back to the ladder. How far does Diego travel each time he repeats this process? If necessary, round to the nearest tenth.

CC8

Name_____ ID: 1

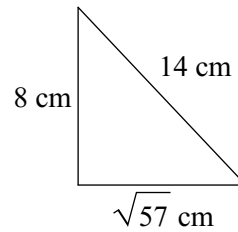# Pythagorean Theorem Review

Date_____ Period____

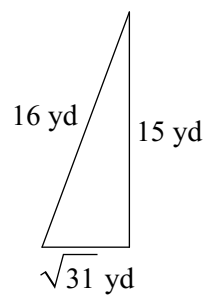**State if each triangle is acute, obtuse, or right. Show all work.**

1)

$\sqrt{65}$ km

4 km
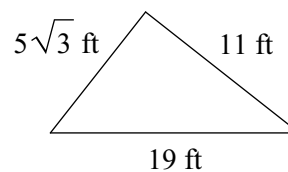
7 km

Right

2)

14 cm

8 cm

$\sqrt{57}$ cm

Obtuse

State if each triangle is right. Show all work.

3)

16 yd   15 yd

$\sqrt{31}$ yd

Yes

4)

$5\sqrt{3}$ ft   11 ft

19 ft

No

Find the missing side. Give both the exact and approxiamate answer. Show all work.

5) $b = 10$ m, $c = 16$ m

$\sqrt{156}$ m or about 12.49m

6) $a = 8$ m, $b = 9$ m

$\sqrt{145}$ m or about 12.04m

Draw a picture, labeling the triangle, write and solve an equation, and then answer the question with a statement.

7) Andy likes to skate at a movie theater that is due south of his school and due west of his favorite game store. If the movie theater is 4 miles from his school and the straight-line distance between the school and the game store is 9 miles, how far is the movie theater from the game store? If necessary, round to the nearest tenth.

The movie theater is about 4.5 miles from the game store.

8) Diego is playing on the slide. Over and over, he climbs the 6-foot ladder, goes down the slide, and walks 3 feet to get back to the ladder. How far does Diego travel each time he repeats this process? If necessary, round to the nearest tenth.

Diego travels about 15.7 feet every time.