New Bedford Public Schools
Division of Adult & Continuing Education

New Bedford High School Evening Extension

2019 – 2020 School Year
Trimester III

Learning Packet #4
for
Geometry

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Email Mr. Alves with questions/concerns regarding this packet at the email address listed above.
Due date: May 12, 2020

Kuta Software - Infinite Geometry Name_____

The Pythagorean Theorem and Its Converse

Date_____ Period____

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

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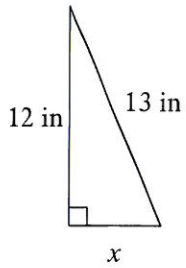

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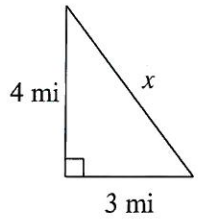

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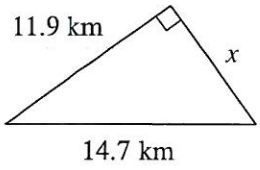

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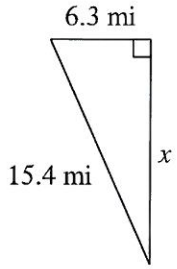

Find the missing side of each triangle. Leave your answers in simplest radical form.

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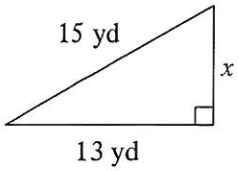

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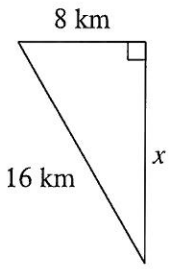


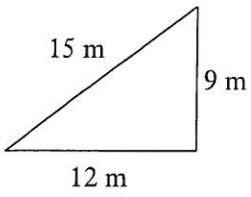
Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Leave your answers in simplest radical form.

7) $a = 11$ m, $c = 15$ m

8) $b = \sqrt{6}$ yd, $c = 4$ yd

State if each triangle is a right triangle.

9)



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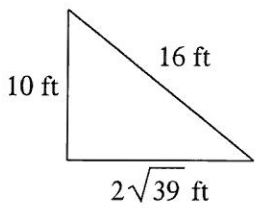

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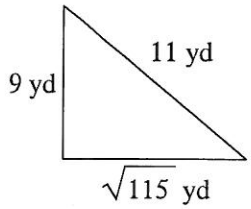

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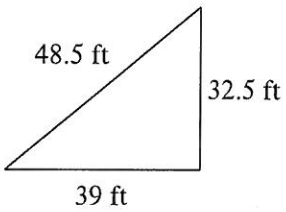


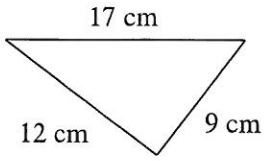
State if the three sides lengths form a right triangle.

13) 10 cm, 49.5 cm, 50.5 cm

14) 9 in, 12 in, 15 in

State if each triangle is acute, obtuse, or right.

15)



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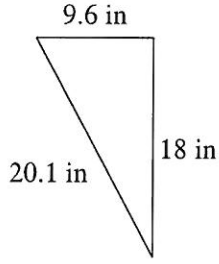

State if the three side lengths form an acute, obtuse, or right triangle.

17) 6 mi, $2\sqrt{55}$ mi, 17 mi

18) 4.8 km, 28.6 km, 29 km

Kuta Software - Infinite Geometry Name_____

Multi-Step Pythagorean Theorem Problems

Date_____ Period____

Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

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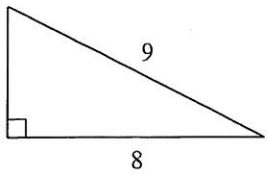

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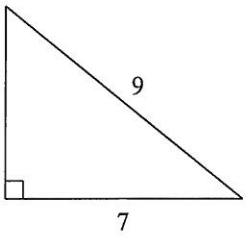

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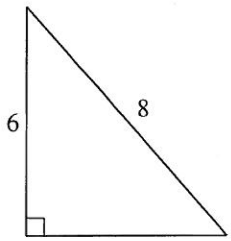

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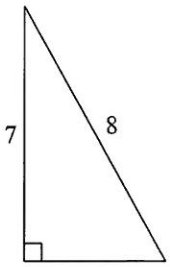

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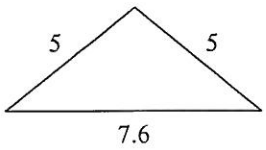

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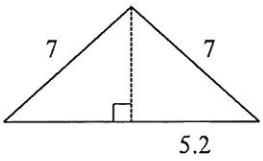

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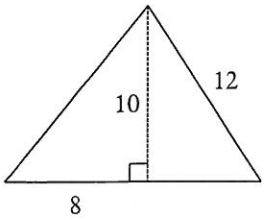

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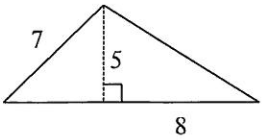

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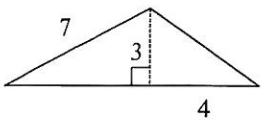

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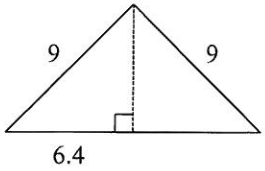

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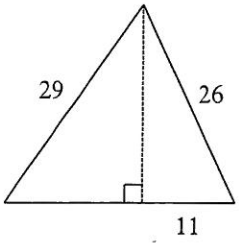

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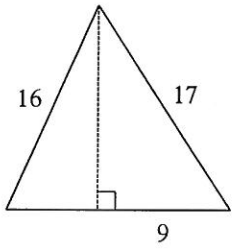

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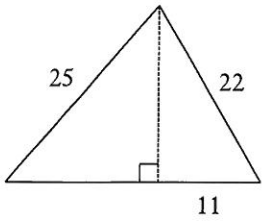

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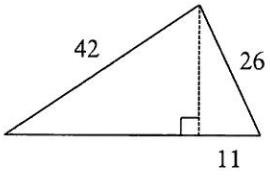

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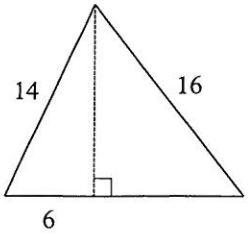

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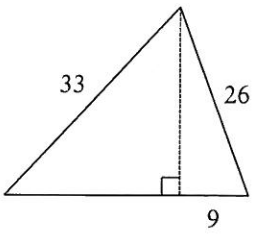

Kuta Software - Infinite Geometry Name_____

Circumference and Area of Circles

Date_____ Period____

Find the area of each. Use your calculator's value of π. Round your answer to the nearest tenth.

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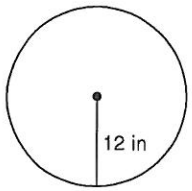

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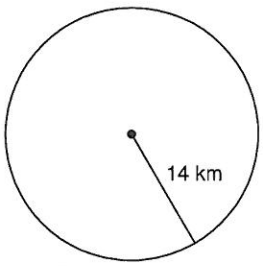

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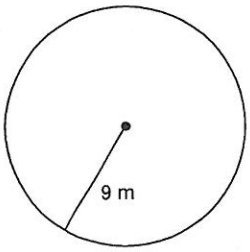

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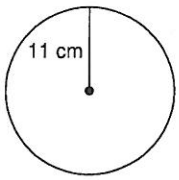


5) radius = 2.6 in

6) radius = 34.1 in

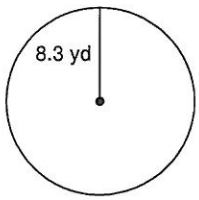
7) radius = 13.2 km

8) radius = 29.9 km

Find the circumference of each circle. Use your calculator's value of π. Round your answer to the nearest tenth.

9)

10)



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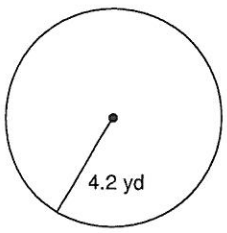

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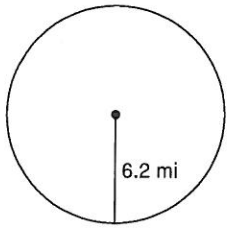

13) radius = 5.2 ft

14) radius = 11.1 ft

15) radius = 9.5 in

16) radius = 9.3 in

Find the radius of each circle. Use your calculator's value of π. Round your answer to the nearest tenth.

17) circumference = 62.8 mi

18) circumference = 69.1 yd

19) circumference = 12.6 yd

20) circumference = 25.1 ft

Find the diameter of each circle. Use your calculator's value of π. Round your answer to the nearest tenth.

21) area = 201.1 in^2

22) area = 78.5 ft^2

Find the circumference of each circle.

23) area = 64π mi^2

24) area = 16π in^2

Find the area of each.

25) circumference = 6π yd

26) circumference = 22π in

Critical thinking question:

27) Find the radius of a circle so that its area and circumference have the same value.