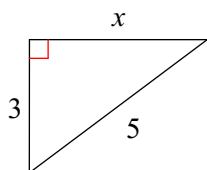


Geometry - PRACTICE EXAM 2 - Spring 2020

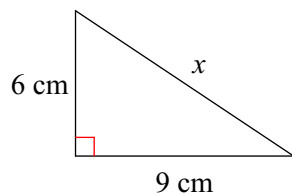
Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

1)



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

2)

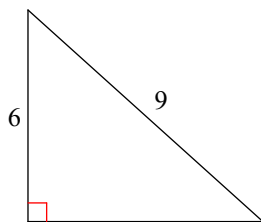


State if the three side lengths form an acute, obtuse, or right triangle.

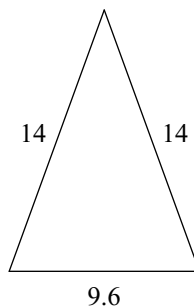
3) $\sqrt{8161}$ yd, 26 yd, $\sqrt{8841}$ yd

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.

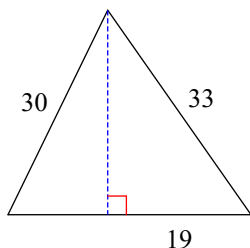
4)



5)

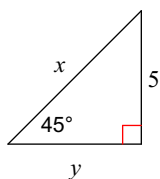


6)

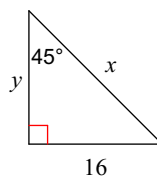


Find the missing side lengths. Leave your answers as radicals in simplest form.

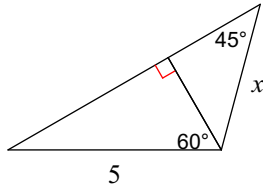
7)



8)



9)

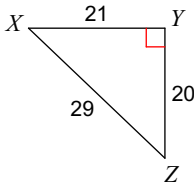


Find the value of each trigonometric ratio to the nearest ten-thousandth.

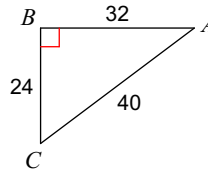
10) $\tan 46^\circ$

Find the value of each trigonometric ratio.

11) $\tan Z$



12) $\sin C$

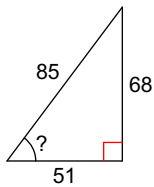


Find each angle measure to the nearest degree.

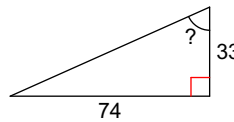
13) $\cos X = 0.9397$

Find the measure of the indicated angle to the nearest degree.

14)

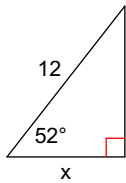


15)

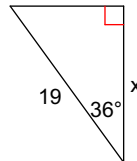


Find the missing side. Round to the nearest tenth.

16)

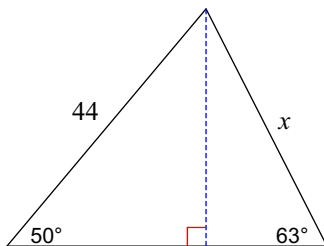


17)



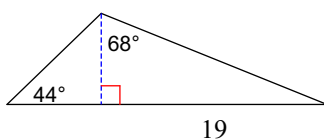
Find the length of the side labeled x . Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

18)

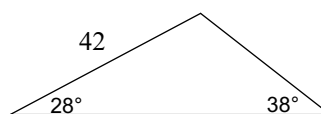


Find the area of each triangle. Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.

19)



20)



Answers to Geometry - PRACTICE EXAM 2 - Spring 2020

1) 4

5) 63.4

9) $\frac{5\sqrt{2}}{2}$

13) 20°

17) 15.4

2) $3\sqrt{13}$ cm

6) 433.4

10) 1.0355

14) 53°

18) 37.8

3) Obtuse

7) $x = 5\sqrt{2}$, $y = 5$

11) $\frac{21}{20}$

15) 66°

19) 104

4) 20.1

8) $x = 16\sqrt{2}$, $y = 16$

12) $\frac{4}{5}$

16) 7.4

20) 613.7