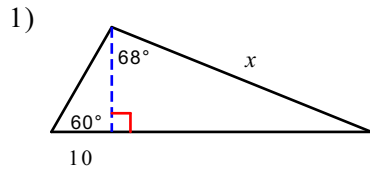


Geometry Homework

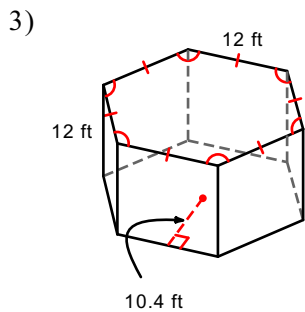
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Review Homework Second Semester Final 7 (RHSSF7)

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.



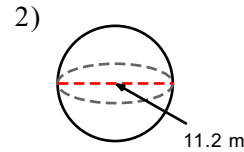
Find the volume of each figure. Round your answers to the nearest tenth, if necessary.



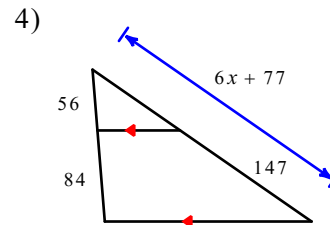
Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

5) triangle
side = $13\sqrt{3}$

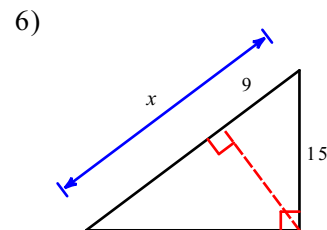
Find the surface area of each figure. Round your answers to the nearest tenth, if necessary.



Solve for x .

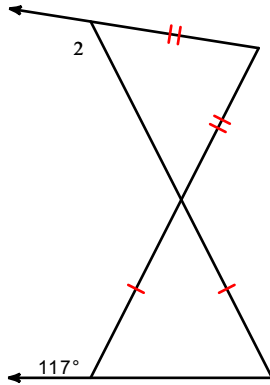


Find the missing length indicated. Leave your answer in simplest radical form.



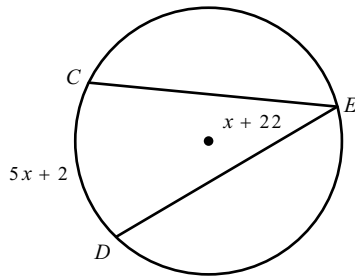
Find the value of x .

7) $m\angle 2 = x + 139$



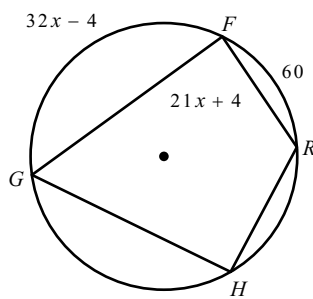
Find the measure of the arc or angle indicated.

9) Find $m\angle DEC$



Find the measure of the arc or angle indicated.

11) Find $m\widehat{GF}$

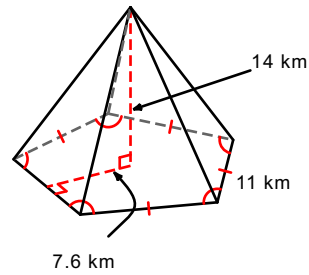


Solve each proportion.

13) $\frac{4}{33} = \frac{v - 49}{v}$

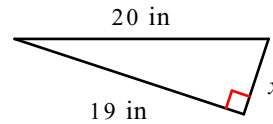
Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

8)



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

10)

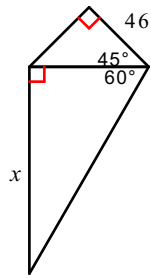


Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

12) pentagon
 apothem = 8.3
 side = 12

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

14)

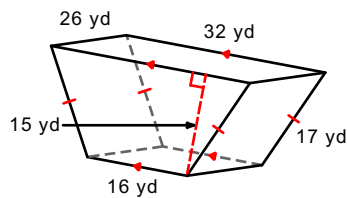


Find the value of each trigonometric ratio to the nearest ten-thousandth.

15) $\tan 18^\circ$

Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

16)

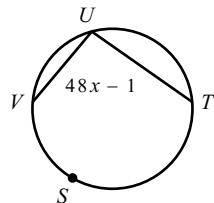


Find the area of each figure. Round your answer to the nearest tenth.

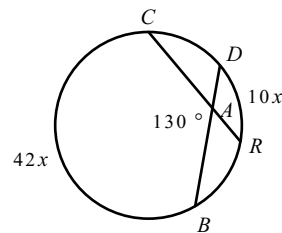
17) A regular 7-gon measuring 7 m on each side.

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

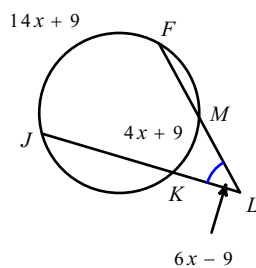
18) $m\widehat{VST} = 95x$
Find $m\widehat{VST}$



19) Find $m\widehat{DR}$



20) Find $m\angle JLF$



Draw a diagram, write an equation, solve, and put your answer in a complete sentence. Round all answers to the nearest tenth or nearest degree.

21) A boat is 600 metres from the base of a cliff. Erika, who is sitting in the boat, notices that the angle of elevation to the top of the cliff is 32° . How high is the cliff?

- 22) Ashleigh went to Cape Canaveral to watch the space shuttle take off. The solid rocket boosters are ejected after the shuttle passes through the threshold of space. This is scheduled to occur when the shuttle reaches a height of 354,200 feet. If Ashleigh is 10 miles from the launchpad, at what angle will she have to look up to see the boosters ejected?
- 23) At a show there were 12 boys for every 5 girls. If there were 384 boys at the show, how many girls were at the show?
- 24) Late in the afternoon, a 34 foot pole casts a shadow 115 feet. A man 6 feet tall stands next to the pole. How long is his shadow? (Round your answer to the nearest tenth.)

Answers to Review Homework Second Semester Final 7 (RHSSF7)

- 1) 46.2 2) 394.1 m^2 3) 4492.8 ft^3 4) 28
5) 219.5 6) 25 7) -13 8) 975.3 km^3
9) 36° 10) $\sqrt{39} \text{ in}$ 11) 124° 12) 249
13) $\left\{ \frac{1617}{29} \right\}$ 14) $46\sqrt{6}$ 15) 0.3249 16) 9360 yd^3
17) 178.1 m^2 18) 190° 19) 50° 20) 45°
21) The cliff is approximately 374.9 metres high.
22) Ashley will have to look at an angle of approximately 82 degrees.
23) There were 160 girls at the show. 24) The shadow would measure 86.3 feet..