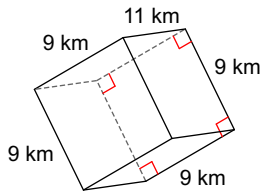


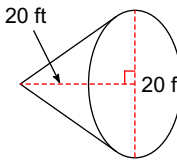
SM2 HW #8-4 (volume)

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

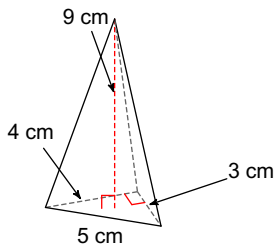
1)



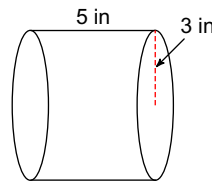
2)



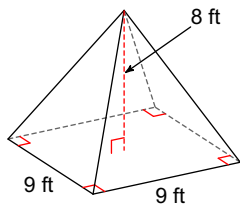
3)



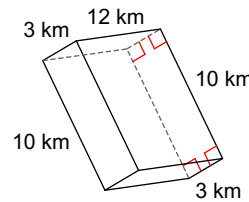
4)



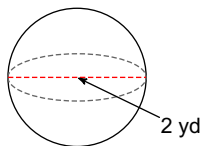
5)



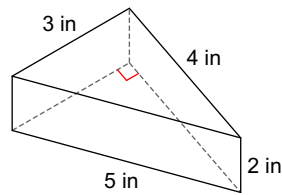
6)



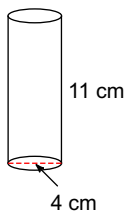
7)



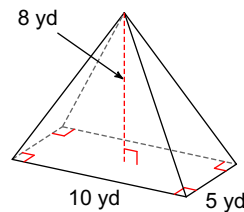
8)



9)

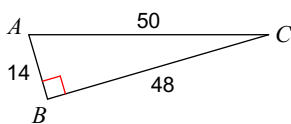


10)

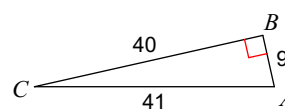


Find the value of each trigonometric ratio.

11)  $\tan C$

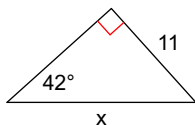


12)  $\cos A$

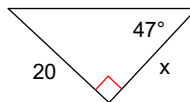


Find the missing side. Round to the nearest tenth.

13)

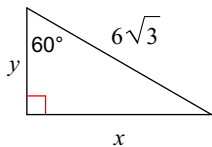


14)

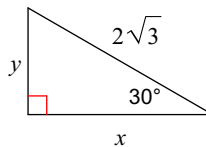


Find the missing side lengths. Leave your answers as radicals in simplest form.

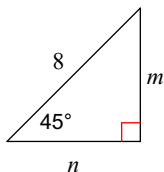
15)



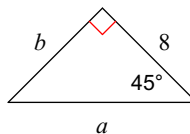
16)



17)



18)



Find the midpoint of the line segment with the given endpoints.

19)  $(6, 2)$ ,  $(10, -4)$

Find the other endpoint of the line segment with the given endpoint and midpoint.

20) Endpoint:  $(-6, -8)$ , midpoint:  $(-1, -9)$

21) The following equation is is "Conic-Section Form"

$$x^2 + y^2 - 10x + 12y = 0$$

- a) Rewrite equation in "Center of the Circle Form"
- b) What is the center and radius of the circle?
- c) What is the area of the circles?

22) The following equation is is "Conic-Section Form"

$$x^2 + y^2 + 16x - 8y = 0$$

- a) Rewrite equation in "Center of the Circle Form"
- b) What is the center and radius of the circle?
- c) What is the area of the circles?