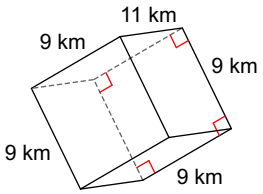
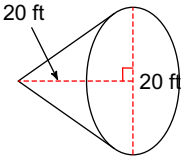
# SM2-A HW #10-6 (volume)

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

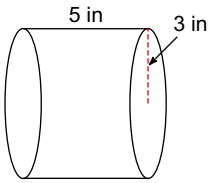
1)



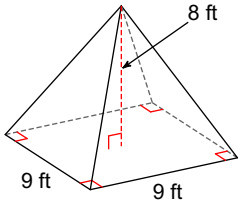

2)



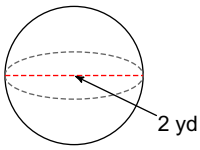

3)



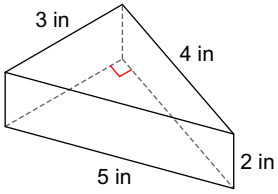

4)




5)

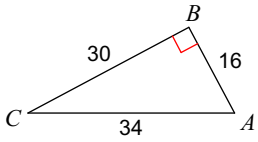



6)



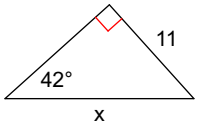

**Find the value of each trigonometric ratio.**

7) tan $A$



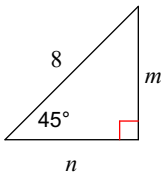

**Find the missing side. Round to the nearest tenth.**

8)




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

9)



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

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

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

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

**Identify the center and radius of each.**

12) $(x - 12)^2 + (y + 16)^2 = 6$

**Use the information provided to write the standard form equation of each circle.**

13) Center: $(0, 9)$
Radius: $\sqrt{95}$

**Simplify.**

14) $\dfrac{\sqrt{3}}{3\sqrt{12}}$

**Write each expression in exponential form.**

15) Write in exponent form:
$\left(\sqrt[5]{3k}\right)^2$

**Simplify. Your answer should contain only positive exponents with no fractional exponents in the denominator.**

16) $4x^{-\frac{3}{2}}y^{-\frac{4}{3}} \cdot x^{\frac{1}{2}}y^{\frac{3}{2}}$