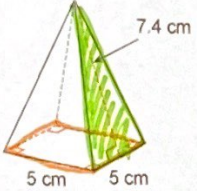

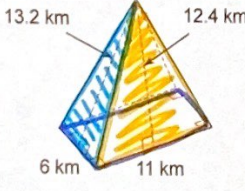
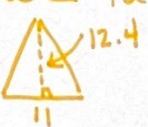
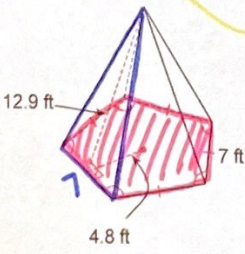

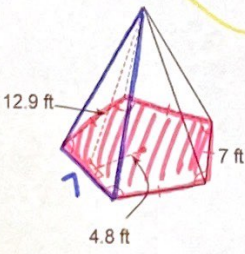
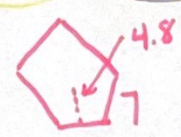


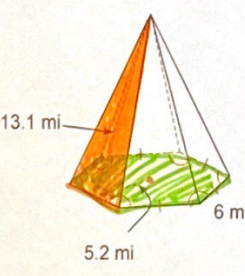
Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

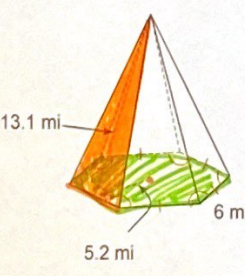
1)  *base ⇒ 5·5*
 $4 \Delta \text{ faces} = 4 \left(\frac{1}{2} 5 \cdot 7.4 \right)$
 $SA = 99 \text{ cm}^2$

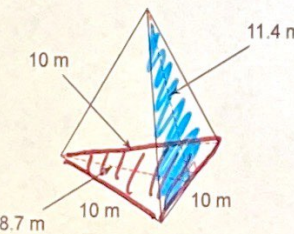
2)  *Area of Rectangle base = 6·11*
 $2 \text{ Yellow } \Delta \text{ faces} = 2 \left(\frac{1}{2} 11 \cdot 12.4 \right)$
 +

3)  $2 \text{ aqua } \Delta \text{ faces} = 2 \left(\frac{1}{2} 6 \cdot 13.2 \right)$
 $SA = 281.6 \text{ km}^2$

4)  *Area of Pentagon base*
 $+ 5 \left(\frac{1}{2} 7 \cdot 4.8 \right)$


5)  $5 \Delta \text{ faces } \triangle = 5 \left(\frac{1}{2} 7 \cdot 12.9 \right)$
 $SA = 309.75 \text{ ft}^2$

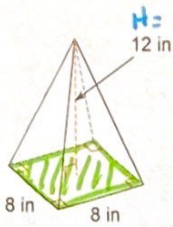
6)  *Area of hexagon base =*
 $6 \left(\frac{1}{2} 6 \cdot 5.2 \right)$
 $6 \times \triangle = 6 \left(\frac{1}{2} 6 \cdot 13.1 \right)$
 $SA = 329.4 \text{ m}^2$

7)  *Area of Equilateral Base:*
 $+ \frac{1}{2} 10 \cdot 8.7$
 $Area \text{ of } 3 \triangle \text{ faces} = 3 \left(\frac{1}{2} \cdot 10 \cdot 11.4 \right)$
 $SA = 214.5 \text{ m}^2$

$V = \frac{1}{3} (\text{Area of the base}) \cdot \text{Height to the vertex.}$

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

6)



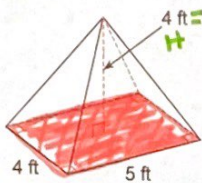
$$V = \frac{1}{3} (\text{Area of square base}) \cdot H$$

Area of base 8×8

$$V = \frac{1}{3} (8 \times 8) \cdot 12$$

$$V = 256 \text{ in}^3$$

7)



$$V = \frac{1}{3} (\text{Area of Rectangle Base}) \cdot H$$

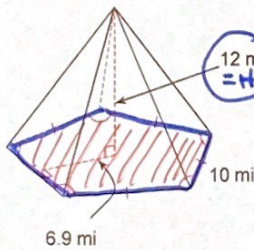
Area of base: 4×5

$$V = \frac{1}{3} (4 \times 5) \cdot 4$$

$$V \approx 26.67 \text{ ft}^3$$

~~$V = 26.67$~~

8)



$$V = \frac{1}{3} (\text{Area of Pentagon}) \cdot H$$

Area of pentagon:

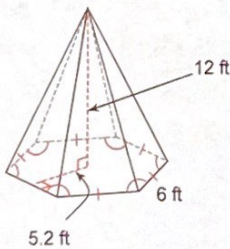


$$5 \left(\frac{1}{2} \cdot 10 \cdot 6.9 \right)$$

$$V = \frac{1}{3} \left(5 \cdot \frac{1}{2} \cdot 10 \cdot 6.9 \right) \cdot 12$$

$$V = 690 \text{ mi}^3$$

9)



$$V = \frac{1}{3} (\text{Area of hexagon}) \cdot H$$

Area of hexagon

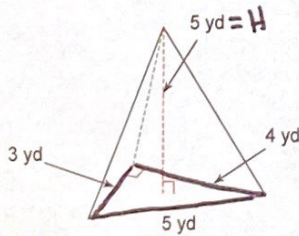
$$6 \left(\frac{1}{2} \cdot 6 \cdot 5.2 \right)$$

$H = 12$

$$V = \frac{1}{3} \left(6 \left(\frac{1}{2} \cdot 6 \cdot 5.2 \right) \right) \cdot 12$$

$$V = 374.4 \text{ ft}^3$$

10)



$$\text{Area of base } \frac{3 \cdot 4}{5} = \frac{1}{2} \cdot 3 \cdot 4$$

$H = 5$

$$V = \frac{1}{3} (\text{Area of } \Delta \text{ Base}) \cdot H$$

$$V = \frac{1}{3} \left(\frac{1}{2} \cdot 3 \cdot 4 \right) \cdot 5$$

$$V = 10 \text{ yd}^3$$

This 5 is not used