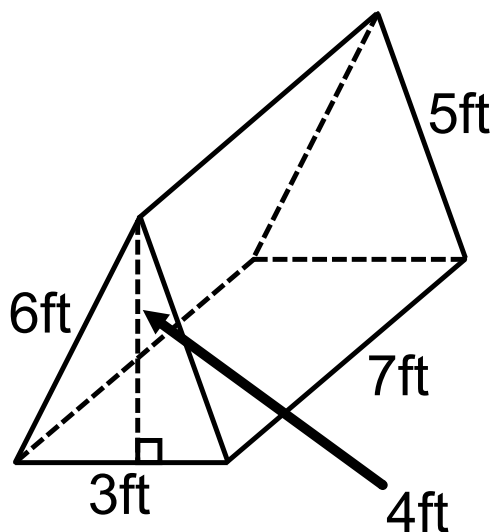


**Warm up:**

Find the surface area and volume.



SA)  $\frac{1}{2} \cdot 3 \cdot 4 = 6$

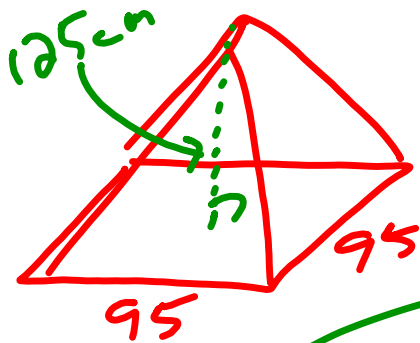
$6 \cdot 7 = 35$   
 $6 \cdot 7 = 42$   
 $3 \cdot 7 = 21$

$110 \text{ft}^2$

V)  $\frac{1}{2} \cdot 3 \cdot 4 \cdot 7 = 42 \text{ft}^3$

## HW Solutions

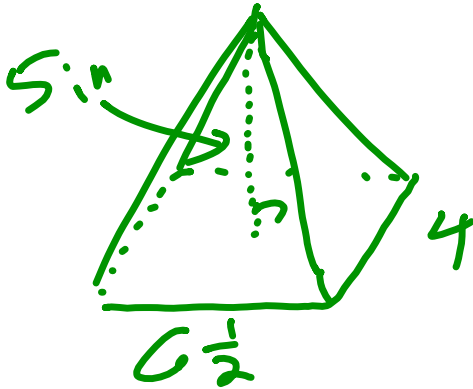
③



$$\frac{1}{3}(95 \cdot 95)(125)$$
$$376041.66\bar{6}$$
$$376041.7 \text{ cm}^3$$

$$V(\text{pyramid}) = \frac{1}{3}Bh$$

(10)

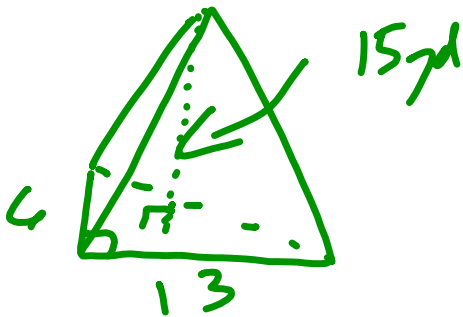


$$\frac{1}{3}(6.5 \cdot 4)(5)$$

$$43.333$$

$$43.3 \text{ in}^3$$

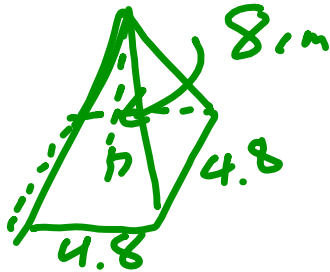
Q1



$$\frac{1}{3} \left( \frac{1}{2} \cdot 6 \cdot 13 \right) (15)$$

$$195 \text{ yd}^3$$

Q2

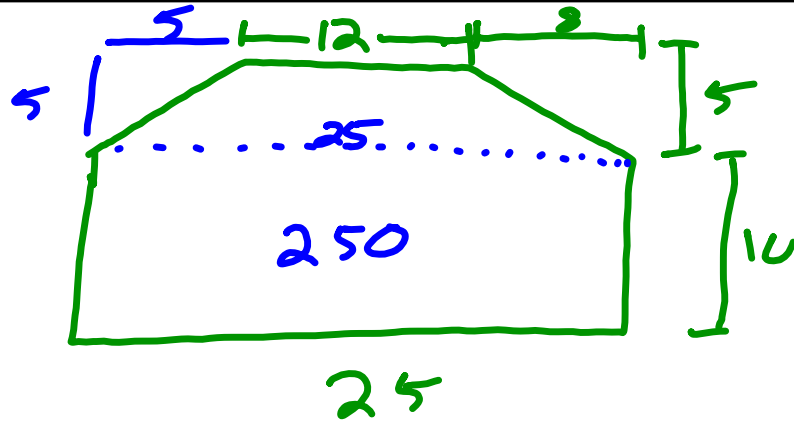


$$\frac{1}{3} (4.8 \cdot 4.8) (8)$$

$$61.44$$

$$61.4 \text{ cm}^3$$

④



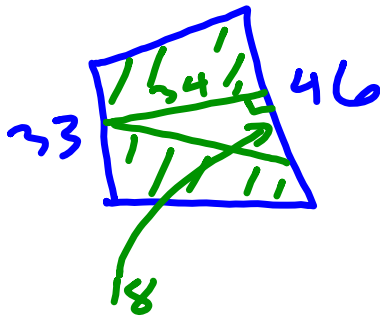
$$\frac{1}{2} h (b_1 + b_2)$$

$$= \frac{1}{2} (5)(25 + 12)$$

$$= \frac{1}{2} (5)(37) = 92.5$$

$$\begin{array}{r} 250 \\ + 92.5 \\ \hline 342.5 \text{ ft}^2 \end{array}$$

(4)

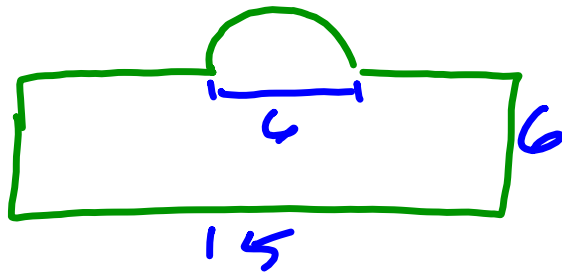


$$\frac{1}{2}(34)(33+46) = 1343$$

$$\frac{1}{2} \cdot 18 \cdot 34 = - 306$$

$$\underline{1037 \text{ cm}^2}$$

(2)



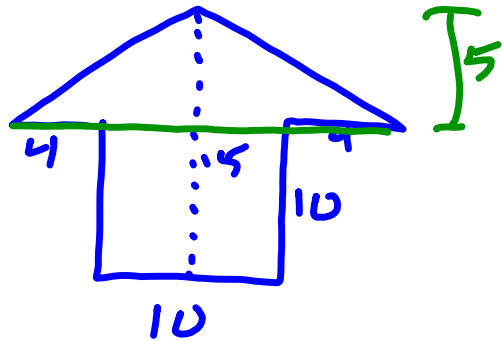
$$15 \cdot 6 = 90$$

$$\frac{1}{2} \cdot 3.14(3)^2 = 14.13$$

$$104.13$$

$$104.13$$

9



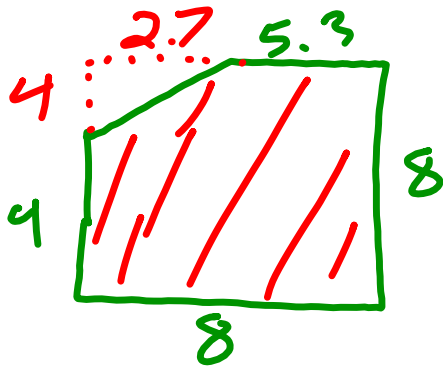
$$10 \cdot 10 = 100$$

$$\frac{1}{2}(10)(5) = 45$$

$$\underline{\underline{145 \text{ m}^2}}$$



Q

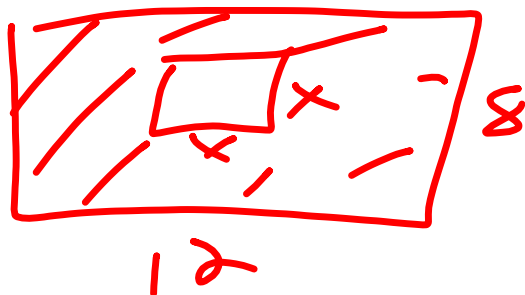


$$8 \cdot 8 = 64$$

$$\frac{1}{2} \cdot 4 \cdot 2.7 = 5.4$$

$$\underline{58.6 \text{ in}^2}$$

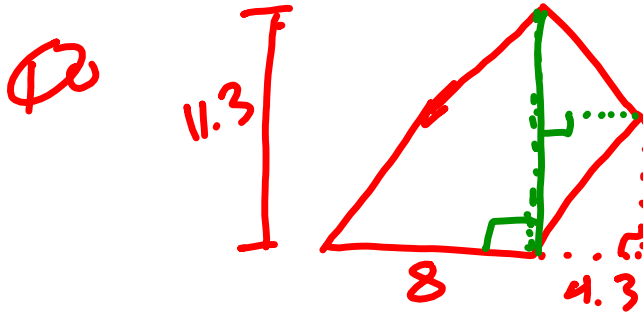
⑩



$$12 \cdot 8 = 96$$

$$x \cdot x = x^2$$

$$96 - x^2$$

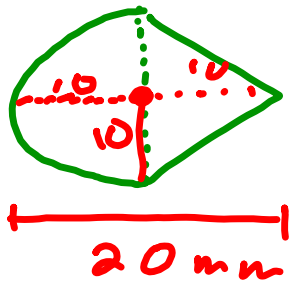


$$\frac{1}{2} \cdot 8 \cdot 11.3 = 45.2$$
$$\frac{1}{2} \cdot 11.3 \cdot 4.3 = 24.295$$

---

$$69.495$$
$$\textcircled{69.5 \text{ ft}^2}$$

9



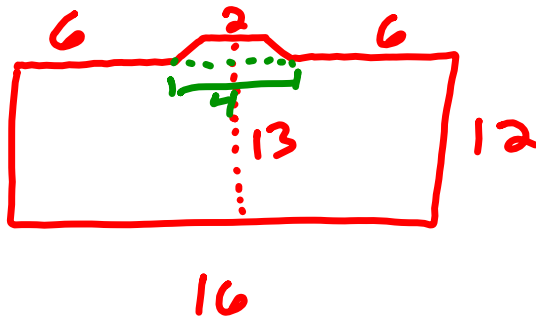
$$\frac{1}{2} \cdot 3.14(10)^2 = 157$$

$$\frac{1}{2} \cdot 20 \cdot 10 = 100$$


---


$$257 \text{ mm}^2$$

⑤



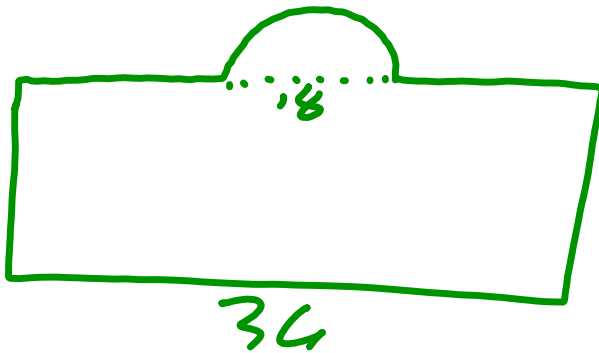
$$16 \cdot 12 = 192$$

$$\frac{1}{2} \cdot (1) \cdot (4+2) = 3$$

$$\underline{\underline{195}}$$

(13)

20



$$\frac{1}{2} \cdot 3.14(9)^2 = 127.17$$

$$20 \cdot 36 = \underline{720}$$

$$\begin{array}{r} 847.17 \\ 847.25 \end{array}$$

24

⑱ 467.4 ft<sup>2</sup>

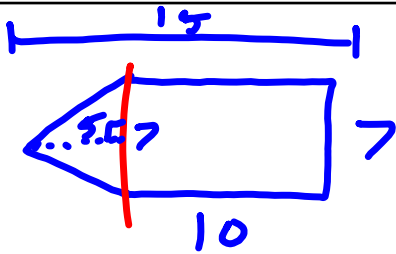
⑲ 350 ft<sup>2</sup>

2 gal

\$20/gal

④ \$40

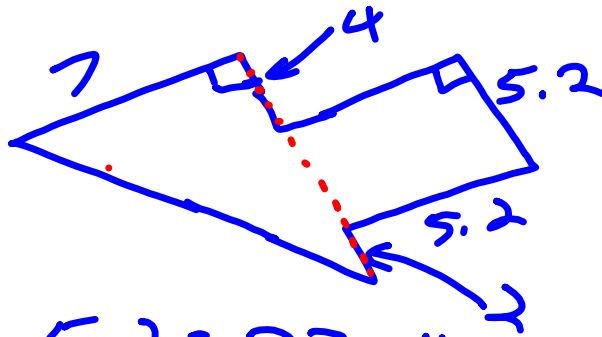




$$10 \cdot 7 = 70$$
$$\frac{1}{2} \cdot 7.5 \cdot 7 = 17.5$$

$$\textcircled{87.5 \text{ cm}^2}$$

Q



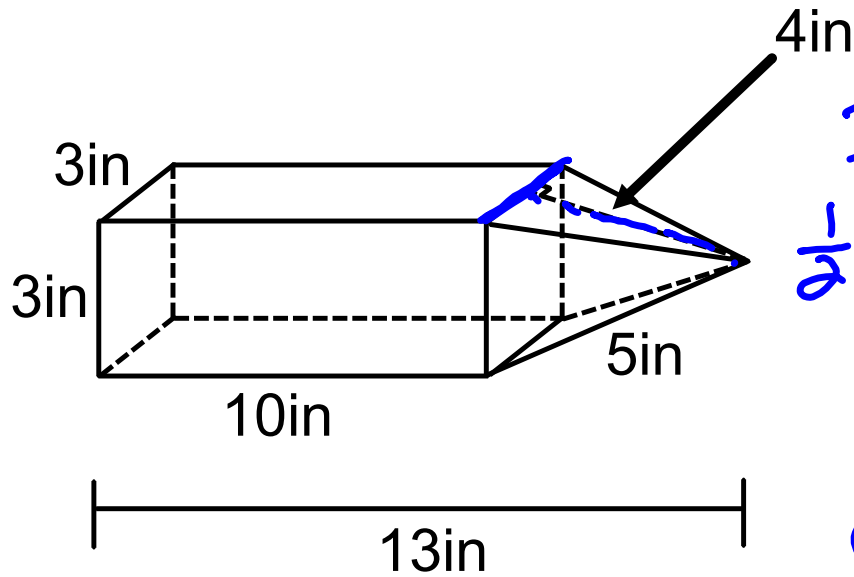
$$5.2 \cdot 5.2 = 27.04$$

$$\frac{1}{2} (11.2)(7) = 39.2$$

$$\underline{66.24}$$

$$\textcircled{66.2 \text{ yd}^2}$$

Find the surface area.



$$10 \cdot 3 = 30$$

$$30$$

$$30$$

$$30$$

$$30$$

$$3 \cdot 3 = 9$$

$$\frac{1}{2} \cdot 3 \cdot 4 = 6$$

$$6$$

$$6$$

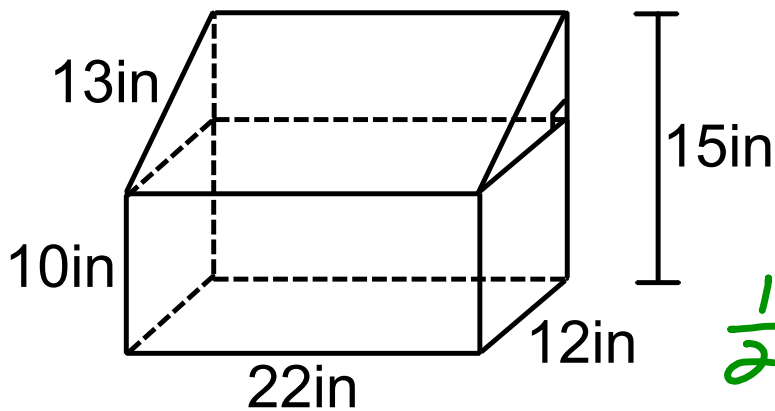
$$6$$

$$6$$

$$153 \text{ in}^2$$

# Practice

Find the surface area.



$$22 \cdot 12 = 264$$

$$10 \cdot 22 = 220$$

$$220$$

$$10 \cdot 12 = 120$$

$$120$$

$$\frac{1}{2} \cdot 12 \cdot 5 = 30$$

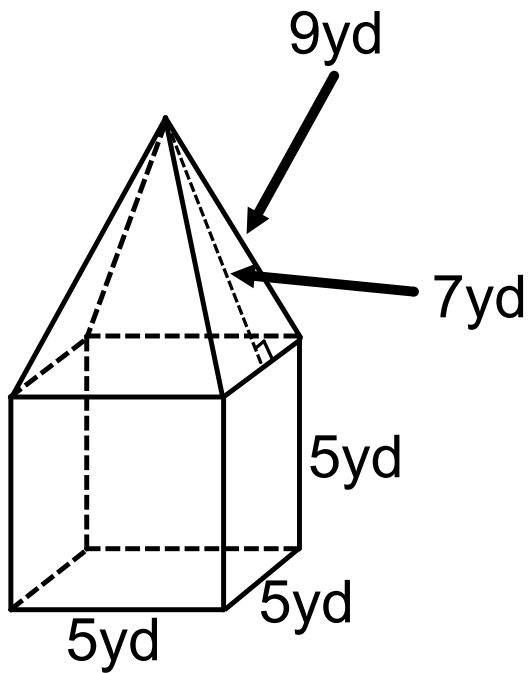
$$30$$

$$13 \cdot 22 = 286$$

$$5 \cdot 22 = 110$$

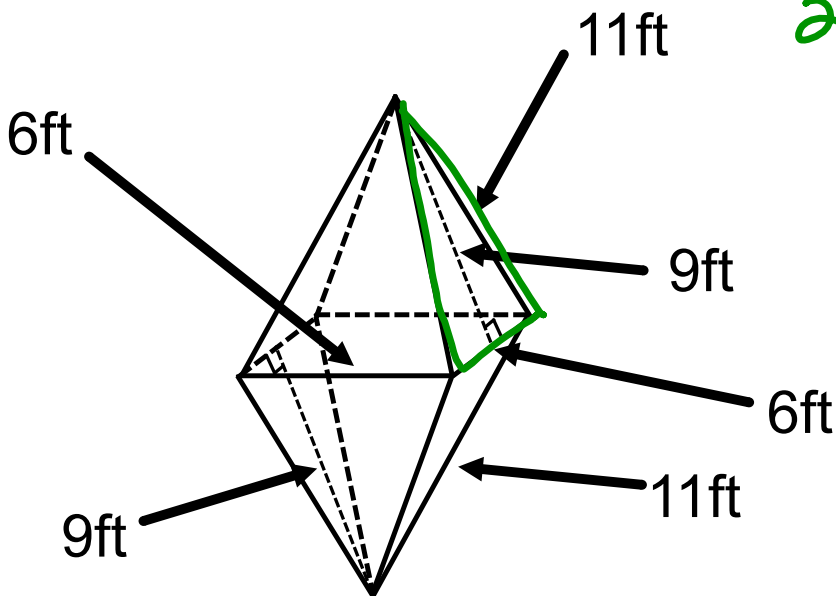
$$1400 \text{ in}^2$$

Find the surface area.



$$\begin{array}{r}
 5 \cdot 5 = 25 \\
 25 \\
 25 \\
 25 \\
 25 \\
 25 \\
 \hline
 \frac{1}{2} \cdot 5 \cdot 7 = 17.5 \\
 17.5 \\
 17.5 \\
 17.5 \\
 \hline
 195 \text{ yd}^2
 \end{array}$$

Find the surface area.



$$\frac{1}{2} \cdot 6 \cdot 9 = 27$$

$$\times 8$$

$$\underline{\underline{216 \text{ ft}^2}}$$

