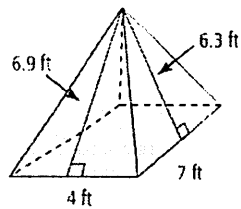
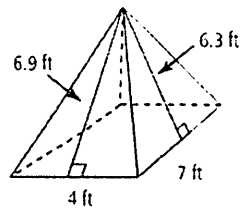
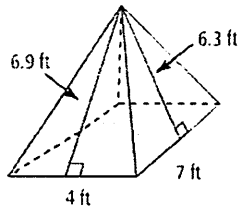
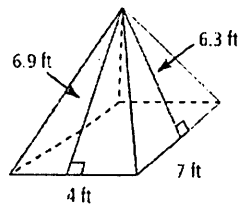
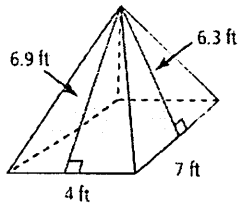
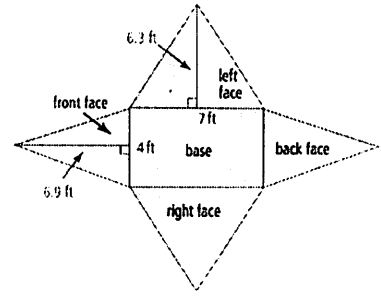
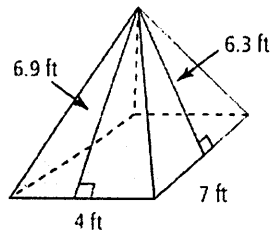


Lesson 14-4: Surface Areas of Pyramids

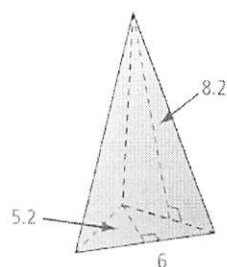
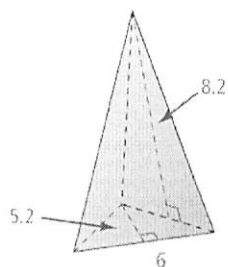
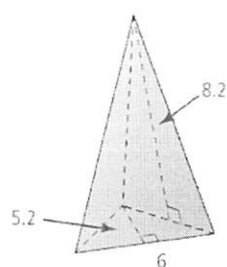
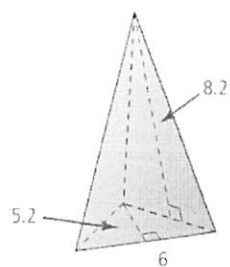
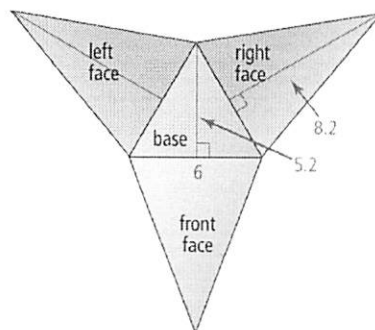
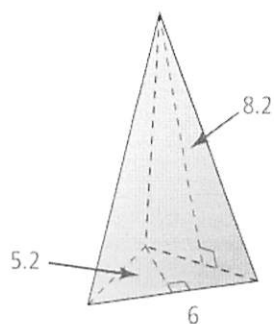
Got It?

Find the surface area of the rectangular pyramid to the nearest square foot.



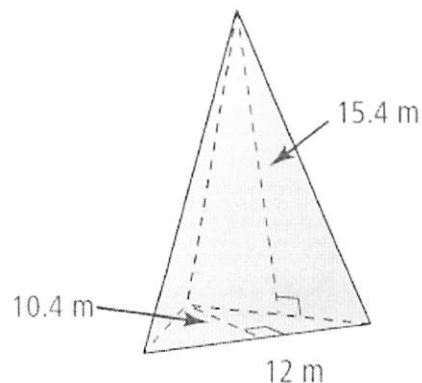
Example

Find the surface area of the regular triangular pyramid to the nearest square unit.



Got It?

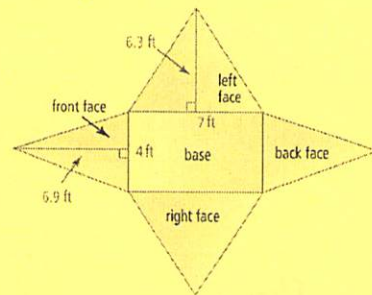
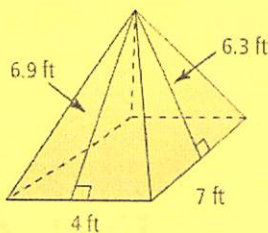
Find the surface area of the regular triangular pyramid to the nearest square meter.



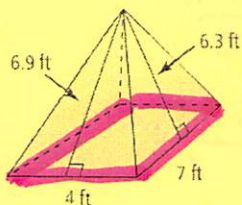
Lesson 14-4: Surface Areas of Pyramids

Got It?

Find the surface area of the rectangular pyramid to the nearest square foot.



Bottom Face

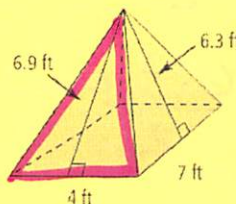


$$A = b \cdot h$$

$$A = 4 \cdot 7$$

$$A = \underline{28 \text{ ft}^2}$$

Front Face

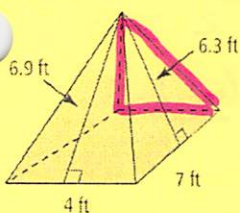


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{4 \cdot 6.3}{2}$$

$$A = \underline{13.8 \text{ ft}^2}$$

Back Face

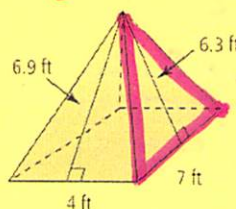


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{7 \cdot 6.3}{2}$$

$$A = \underline{22.05 \text{ ft}^2}$$

Right Face

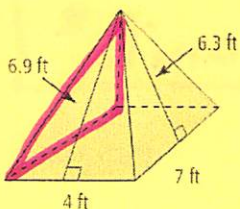


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{7 \cdot 6.3}{2}$$

$$A = \underline{22.05 \text{ ft}^2}$$

Left Face



$$A = \frac{b \cdot h}{2}$$

$$A = \frac{7 \cdot 6.3}{2}$$

$$A = \underline{22.05 \text{ ft}^2}$$

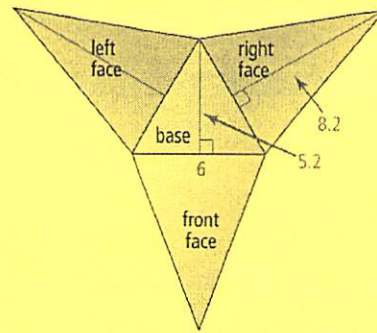
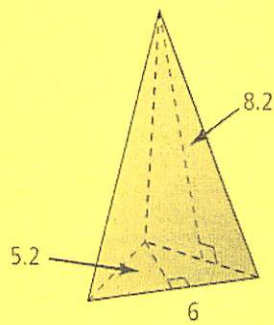
Total Surface

$$\text{Area } 99.7 \text{ ft}^2$$

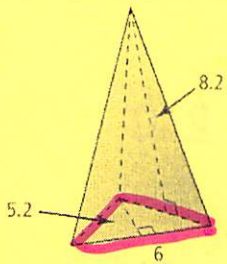
$$\boxed{100 \text{ ft}^2}$$

Example

Find the surface area of the regular triangular pyramid to the nearest square unit.



Bottom Base

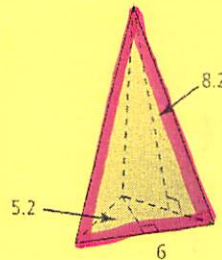


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 5.2}{2}$$

$$A = \underline{15.6 \text{ units}^2}$$

Front Face

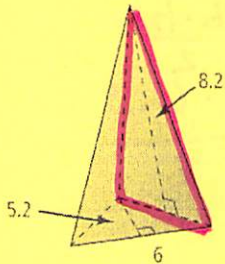


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 8.2}{2}$$

$$A = \underline{24.6 \text{ units}^2}$$

Right Face

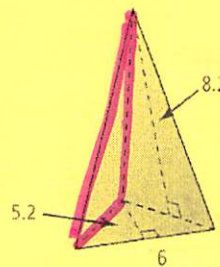


$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 8.2}{2}$$

$$A = \underline{24.6 \text{ units}^2}$$

Left Face



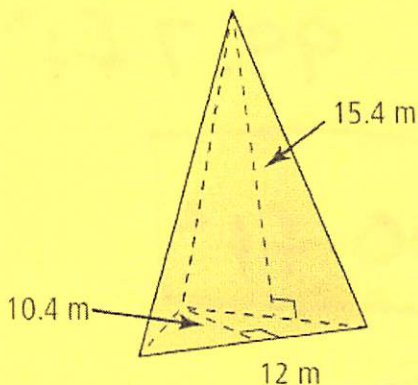
$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 8.2}{2}$$

$$A = \underline{24.6 \text{ units}^2}$$

Got It?

Find the surface area of the regular triangular pyramid to the nearest square meter.



$$\text{Total Surface Area} = 89.4 \text{ units}^2$$

$$\boxed{89 \text{ units}^2}$$

Bottom Base Δ

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{12 \cdot 10.4}{2}$$

$$A = \underline{62.4 \text{ m}^2}$$

Lateral Faces $\Delta \times 3$

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{12 \cdot 15.4}{2}$$

$$A = 92.4 \text{ m}^2$$

$$\times 3 = \underline{277.2 \text{ m}^2}$$

$$\boxed{\text{Total Surface Area} = 339.6 \text{ m}^2}$$