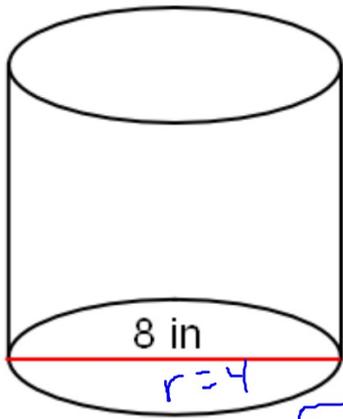


1. Find the Surface Area of this Cylinder



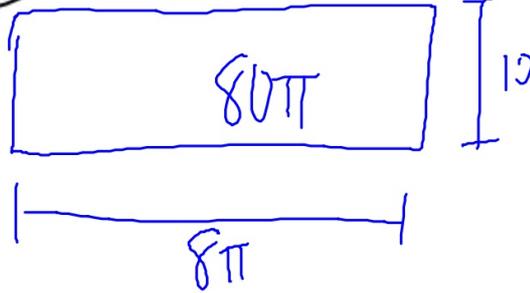
10 in

$$SA = LA + 2B$$

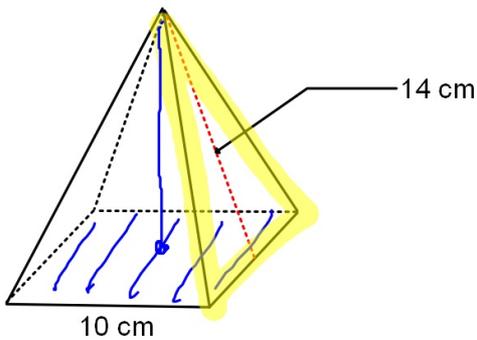


$$80\pi + 2(\pi(4)^2) = 112\pi \text{ in}^2$$

The calculation shows the lateral surface area 80π plus the area of two circular bases $2(\pi(4)^2) = 32\pi$, resulting in a total surface area of $112\pi \text{ in}^2$.



2. Find the Surface Area of this Square Pyramid.



Surface Area of a Pyramid

$$SA = B + LA$$



$$100 + 280 = 380 \text{ cm}^2$$

The calculation shows the base area 100 plus the lateral surface area 280 , resulting in a total surface area of 380 cm^2 .

$$LA = \left[\frac{1}{2}(10)(14) \right] \times 4 = 280$$

The calculation for the lateral surface area (LA) of the pyramid: $LA = \left[\frac{1}{2}(10)(14) \right] \times 4 = 280$.

