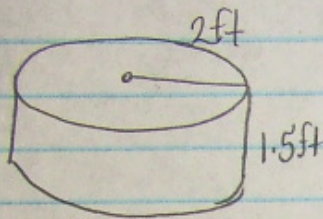


Pg. 171 #1



$$\begin{aligned} SA &= \pi r^2 + 2\pi rh \\ &= \pi (2)^2 + 2\pi (2)(1.5) \\ &= 12.56 + 18.84 \\ &= 31.4 \text{ ft}^2 \end{aligned}$$

(a) One Pond $10' \times 15' = 150 \text{ ft}^2$.

$$150 \div 31.4 = 4.7$$

\therefore 4 ponds.

(b) \$149.00

\$37.25

\$37.25

4

$$\begin{aligned}\text{Cylinder} &= \cancel{2\pi r^2} + 2\pi rh \\ &= 2(3.14)(1.75)(4.7) \\ &= 51.65 \text{ yd}^2\end{aligned}$$

$$\begin{aligned}2 \text{ Cones} &= 2(\cancel{\pi r^2} + \pi rs) \\ &= 2\pi rs \\ &= 2(3.14)(1.75)(2.73) \\ &= 30. \text{ yd}^2\end{aligned}$$

$$\text{Total} = 51.65 + 30 = 81.65 \text{ yd}^2$$