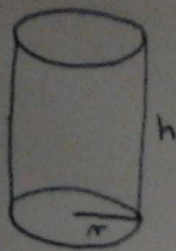


Зад. 5.206



$$P_c = ? \quad P_c = 2P_{\text{подш}} + P_{\text{бок}}$$

$$V = 30\pi$$

$$V = P_{\text{подш}} \cdot h$$

$$P_{\text{подш}} = \pi r^2 = \pi \cdot 3,5^2 = 12,25\pi$$

$$30\pi = 12,25\pi \cdot h \quad | : 12,25$$

$$h = \frac{30\pi}{12,25\pi} = \frac{120}{49}$$

$$P_{\text{бок}} = ob_{\text{б}} \cdot h = 7\pi \cdot \frac{120}{49} = \frac{120\pi}{7}$$

$$ob_{\text{б}} = 2\pi r = 2\pi \cdot 3,5 = 7\pi$$

$$P_c = 2 \cdot 12,25\pi + \frac{120\pi}{7} = \frac{245}{10}\pi + \frac{120\pi}{7} =$$

$$= \frac{1715 + 1200}{70}\pi = \frac{2915}{70}\pi = \frac{583}{14}\pi$$