Tarefa Básica

01- $V = \pi r^2 . a = \pi 10^2 . 40$

$\frac{4000\pi}{5} = 800\pi$ (quantidade de água)

$V = \pi 5^2 . h = 800\pi \text{ cm}^3$

$25h = 800$

$h = 32 \text{ cm}$ (A)

02-

03- $V = \pi r^2 . h = 16.\pi$

$At = 2.\pi . r^2 + 2\pi . r . h$

$At = 2.\pi (3/2\pi) . h = 3\pi . r . h$ e $\pi r^2 . h = 16$

$\pi r . h = 2\pi r^2$ e $\pi . r^2 . h = 16\pi$

$h = 2r$ e $r^2 . h = 16$

$2r^3 = 16$

$r = \sqrt[3]{8} = 4$ (D)

04- $V = \pi (r+12)^2 . 4 = r^2 . (4+12)$

$V = \pi (4r^2 + 96r + 576) = 16r^2$

$V = \pi 4r^2 + 96r - 16r^2 + 576$

$V = -r^2 + 8r + 48 \div -1$

$V = r^2 - 8r - 48$ (A)

$r^2 - 8r - 48$

$\Delta = 64 + 192$

$\Delta = 256$

$x = \frac{8 \pm 16}{2}$ → $x' = 12$ → $x'' = -4$ ×

Tarefa Básica

01- $\frac{48 = 2x^2 \cdot 8}{3}$

$16x^2 = 48 \cdot 3$

$x = \sqrt{9} = 3$ (C)

02- $80^2 = 6400$

$h^2 = 40^2 + 30^2$

$h = \sqrt{2500} = 50$

$80 \cdot 50/2 = 2000\ mm^2$

$4 \cdot 2000 + 6400 = 14400$ (E)

03-

04- $V = \frac{1}{3} ab \cdot b\sqrt{3}$

$V = 3a \cdot b \cdot b\sqrt{3}$

$V = 3a\, b^2\sqrt{3}$

05- $(3 \cdot (4^2))\sqrt{3}/2$

$Ab = 24\sqrt{3}$

$V = 24\sqrt{3} \cdot 6\sqrt{3}/3$

$V = 144\ cm^3$ (D)

06- $Ab = 6 \cdot 1^2\sqrt{3}/4$

$Ab = \frac{3\sqrt{3}}{2}\ cm^2$

$V = (1/3) \cdot 8 \cdot 3\sqrt{3}/2$

$V = 4\sqrt{3}\ cm^2$

(A)

07- $V = (2a)^2 \cdot h/3$

$V = 4a^2 \cdot h/3$

$4a^2 \cdot h/3 \;/\; a^2 h$

$4a^2 h/3 \cdot 1/a^2 h$

$3/4$ (A)

08- $c\sqrt{3} = a^2\sqrt{3}$

$a = \sqrt{c}$

$h = \frac{a\sqrt{c}}{3}$

$h = \frac{\sqrt{c} \cdot \sqrt{c}}{3}$

$h = 2$ cm (A)