February 26 2013 1st.gwb - 1/2 - Mon Feb 25 2013 08:39:20

Section 3.7 SA= 27112 +2111h (25) V = /2 $\overline{f1, 0?}$. 1 fl. 07 = 1,804696 h3 Cost=2(2πr2) +2πrL V= 21,65628 h3 C(r)=4TTr2 +2TH+ (21.65628) 21.527= TT-24 C(r)= 411r2 + 43.3/256r-1 $\frac{21.65628}{\pi c^2} = h$ $C'(r) = 8\pi r - 4331256$ $C'(r) = \frac{8\pi r^{3} - 4331256}{r^{2}}$ C'(r)2 1.1989 > $O = 877 (^3 - 47.3) = 56$ mm 3 43,31256 = 1 Vadius = 1, 1985 12 height = 4.7559 ;~ 1.1989 = rXt9 Printed Area = 52, h = XY 33) → ⁹/_× = y pinted region Total= (Xt2)(yt4) Y+4 $T(x) = (x+2)(\frac{22}{x}+4)$ $T'(x) = (\frac{92}{x} + 4) + (x+2)(-92x^{-2})$ Printed ryim VII in X 2146 in $\frac{97}{10} + \frac{42}{10} \frac{97}{10} - \frac{184}{100}$ overallad 196+2in × 2546+4in $T'(x) \xleftarrow{-} 0 + T'(x) = \frac{4x^2 - 18y}{x^2}$ min $4x^{2}-184 = 0$ x= 46 92546 = 2546 (~++'S => X== -1/46

February 26 2013 1st.gwb - 2/2 - Tue Feb 26 2013 08:18:30

1ft3=7.5991 Section 3.8 $\sqrt{= \pi r^2 h} = \frac{1}{50} gal/min$ $\frac{1}{10} = \frac{1}{10} = \frac{1}{10} = \frac{1}{100} = \frac{1}{10$ CX1 V'(t) = 150 gal/min $V'(t) = \frac{1}{100} (2) (r(t)) r'(t)$ $\frac{150gel}{1min} \frac{1}{7.5gel} = 20ft^{3} \rightarrow 20 = \frac{1}{120} (3)(500) r'(4)$ $20 = \frac{100077}{120} r'(4)$ $\frac{1 \partial \psi}{\partial b \pi} (\partial \phi) = r'(t)$ 3,82 = r (t) when vert. d'st = 8ft y'(t) $\sqrt{2}ft'/sec$ $x^2+y^2 = 10^2$ ex.2 $[x(t)]^{2} + [y(t)]^{2} = 100$ $\times^{\prime}(\mathfrak{t})$ $\mathcal{A}(t) \times (t) + \mathcal{A}(t) = 0$ 2(6) x'(t) + 2(8)(-2) = 0 $x'(t) = \frac{32}{12}$ x'(t) = & ft/sec P. 324-325 1,5,7,9