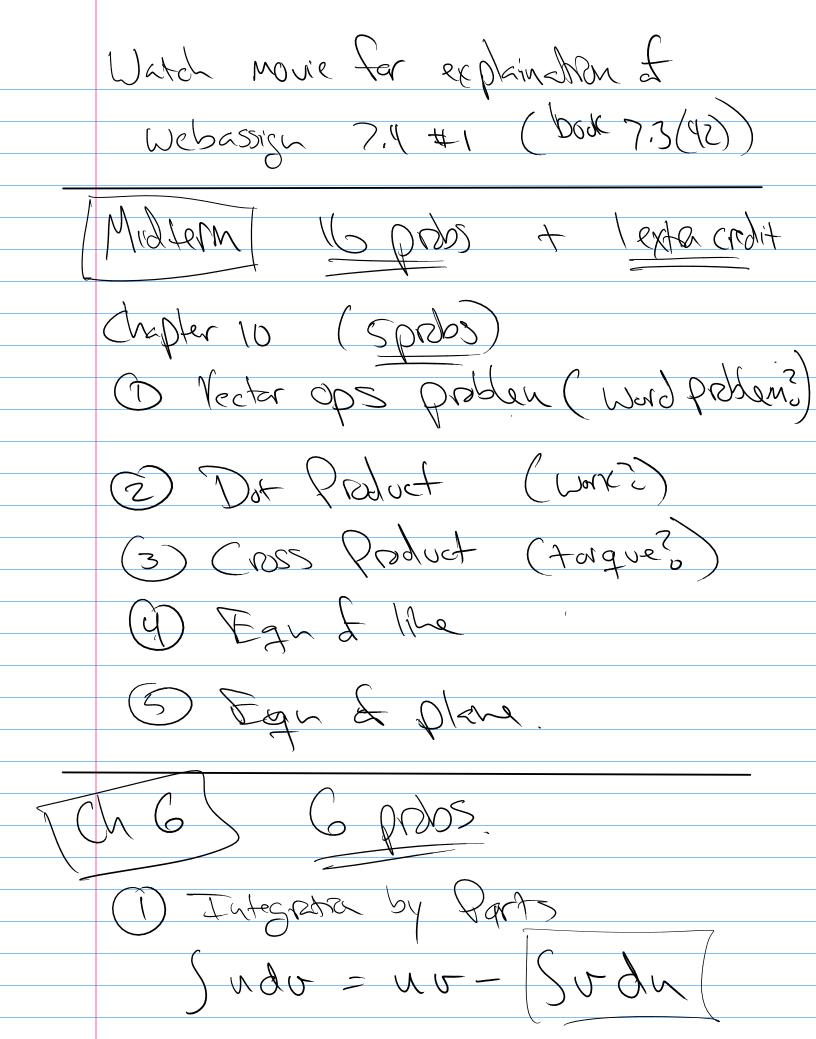
Marh 243

7.3 $y=X^2 X=y^2 \text{ Most } y=$ X = 5 V= (1 ZTT Cradius V= 5-27 (y-c) (151-5) dy = 24 ((-y) + cy + y/2 cy/2) dy = 2TT - fyy + Cy3 + Zy2 2Cy2) $\sqrt{=2\pi} - \frac{1}{4} + \frac{c}{3} + \frac{7}{5} - \frac{2c}{3}$



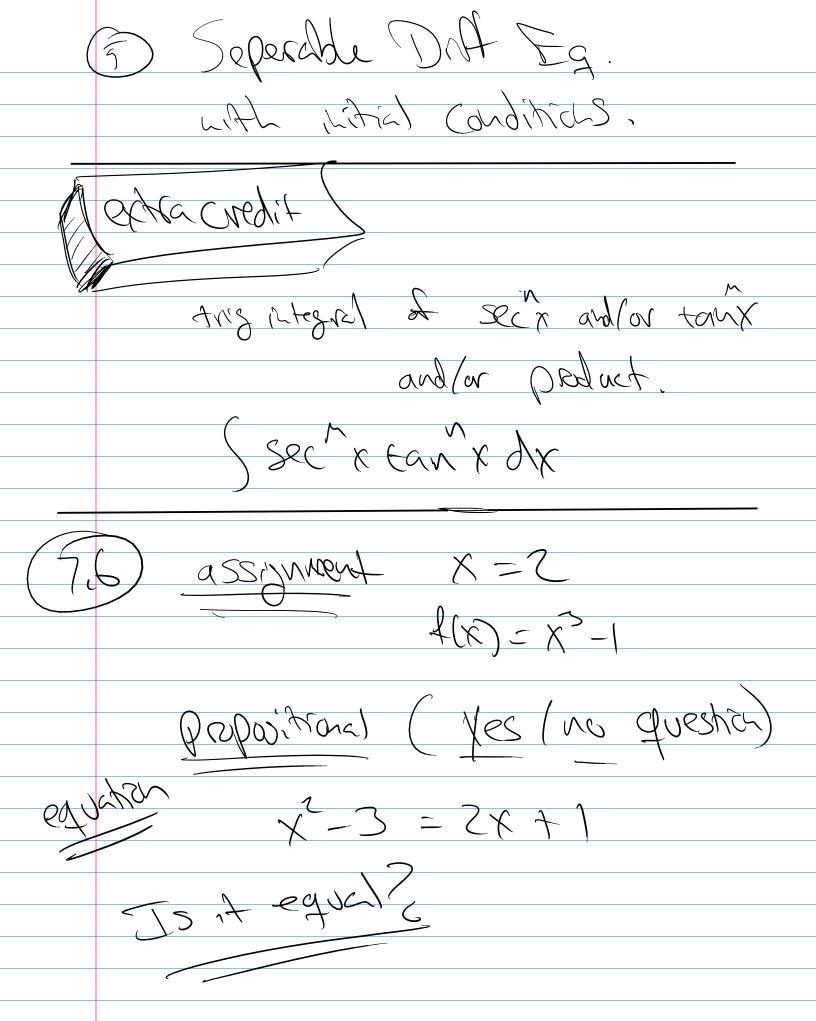
さんなー D キxyx ex /x grx gx = It u= lux du= xdx

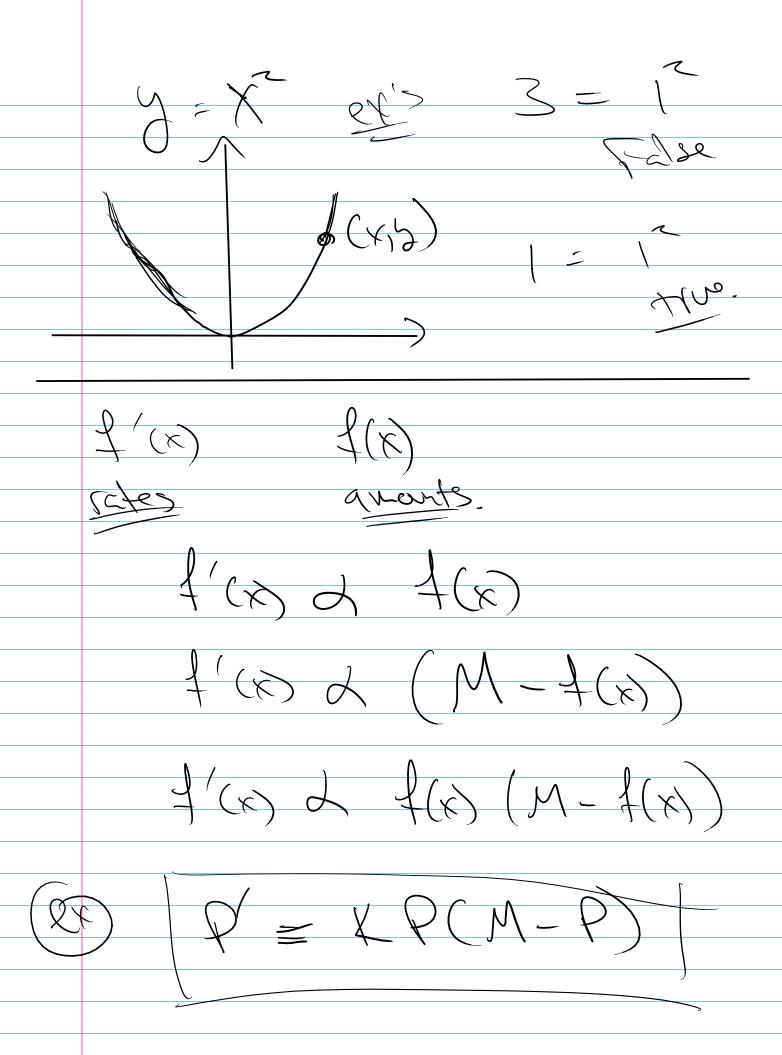
dv= xdx v= \frac{1}{2}x^2. du= x,dx = 5hish. (2) Try Shshtohan (u=asho) 32/4-(X3) 2x = 5/4-12 Du Let $u = \chi^3$ L = \\ \(\ose \) \(\os 3) Parkel Fachan Decomposition $\int \frac{x}{x^2} dx \qquad x + 0x - 1 \int \frac{x^3}{x^3} + 0x + 0$

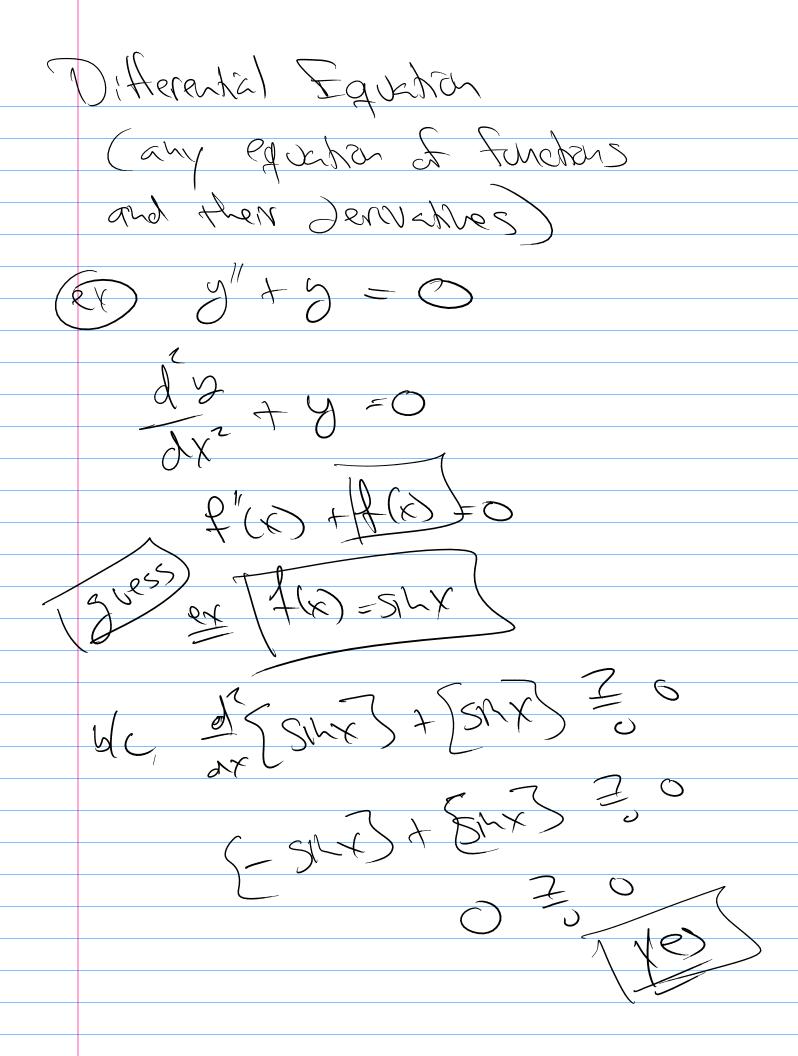
$$\begin{cases} x + \frac{x}{x^2 - 1} & dx \\ x + \frac{x}{x^2 - 1} & dx \\ x + \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} & dx \\ \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} \\ \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} \\ \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} \\ \frac{x}{x^2 + 1} & \frac{x}{x^2 + 1} &$$

(4) som several table ittesrals use a u-substitut Sollowed by table integral. 3 Sinpson's Approx. ec es 1(11+4)1,3+251,6 +4 Jia +2 Jz.z +4 Jz.s 7.0 (TX) DX UDILG N= 6 C) Inproper Integal. (type 1+2) X-1 XX £ 50 x-1 dx + 50 x-1 dx 10 X-1 9X + 50 X-1 9X

1) Volume by Streng 2) Masker Shell f(x) = Shx how is & from X=0 to T2 Arcleyt: The Cos x dx





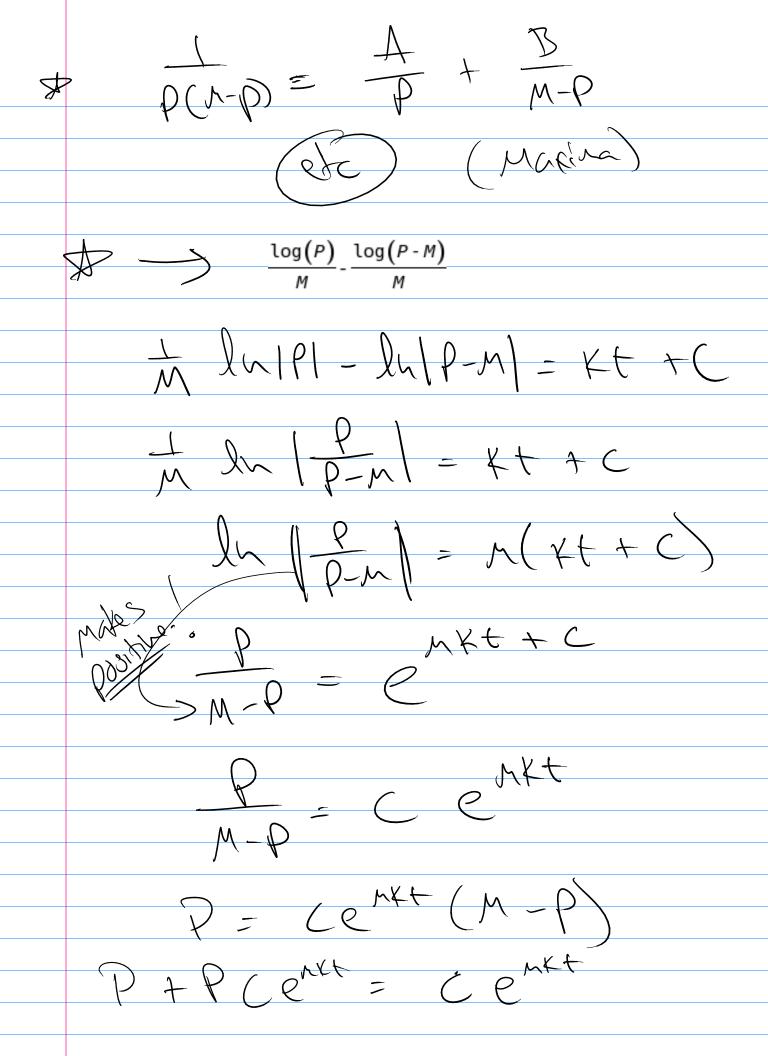


Seperable Eguis dy = g(x) Mydy= Shdx July dy = School du ZE + Sect (u(o) 2 value = 2t + Sect oft value us t + tant + 5 = (

~= € + taut + 25 S) d/ = KP() P(M-P) dP = (X dt P(M-P) = X+ + C

P(M-P) + Factor decomposition

V USE Partial Factor decomposition



$$P = Ce^{Mkt}$$

$$1+ce^{Mkt}$$

$$1-ce^{Mkt}$$

$$1$$

 $\frac{2}{434}$ $\frac{1}{34}$ $\frac{1}{34}$

$$\frac{dS}{ds} + \frac{7}{5}S = 0$$

$$\frac{ds}{dr} = \frac{-z}{r}$$

$$\frac{ds}{s} = \left(\frac{-z}{r}\right)$$

$$\frac{ds}{s} = \left(\frac{-z}{r}\right)$$

$$\frac{-z}{r}$$

$$\frac{ds}{r} = \frac{-z}{r}$$

$$\frac{-z}{r}$$

$$\frac{ds}{dr} = \frac{-z}{r}$$

$$\frac{-z}{r}$$

$$\frac{ds}{r} = \frac{-z}{r}$$

$$\frac{d}{dt} = \frac{c}{t^2}$$

$$\int d\tau = \left(\frac{c}{6^2}\right)$$

$$C = \begin{cases} 1 & 7 = 15 \end{cases}$$

$$C = 2 & 7 = 25 \end{cases}$$

$$15 = 4 + 26 = 15$$

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$$2p^{1/2} = \frac{2}{3}t^{3/2} + C$$

$$2\sqrt{2} = \frac{2}{3}(\sqrt{3})^{2} + C$$

$$C = 2\sqrt{2} - \frac{2}{3}$$

$$2\sqrt{2} = \frac{2}{3}t^{3/2} + 2\sqrt{2}$$

$$2\sqrt{2} + 2\sqrt{2} = \frac{2}{3}t^{3/2} + C$$

$$2\sqrt{2}t\sqrt{2} + 2\sqrt{2}t\sqrt{2} + C$$

$$2\sqrt{2}t\sqrt{2} + C$$

$$2\sqrt{$$