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Assignment #3 Calculus & Analytical Geometry:

QI

$$\frac{4x^{2}-x^{4}+7x^{2}-4x+C}{7}$$

b.
$$\int 6\cos z + \frac{4}{\sqrt{1-z^2}} dz$$

IC. / 2cos w - Sec w tanw dw

92

$$4(\chi \int \cos(2-3\chi) - \int \chi^{2} \int \cos(2-3\chi) + C$$

$$4(2 \times \sin(2-3x)) - \int (1) \sin(2-3x) + C$$

 $-4x \sin(2-3x) - 4(-\cos(2-3x)) + c$ -4xsin(2-3x) + 4(0s(2-3x) +C b. (2+5n)e3ndn $(2+5\pi)\int e^{\frac{1}{3}\pi} - (2+5\pi)^{2}\int e^{\frac{1}{3}\pi}$ (2+5x)e3x - (5e3x 0/3(2+5x)e3x-15 se3x 0/ 3xx+15xe3x - 15e3x 6e3x + 15xe3x - 45e3x 15ue3x - 39e/34 $15(0)e^{\frac{1}{3}\times0} - 39e^{\frac{1}{3}*0} - \left(15(6)e^{\frac{1}{3}} - 39e^{\frac{1}{3}}\right)$ $0 - 39 - 90e^2 + 39e^2$ -39-51e2 ≈ 416

dr. 1-25x2 u-1/2 du + 2sin-1 (5u) sec v du = dv

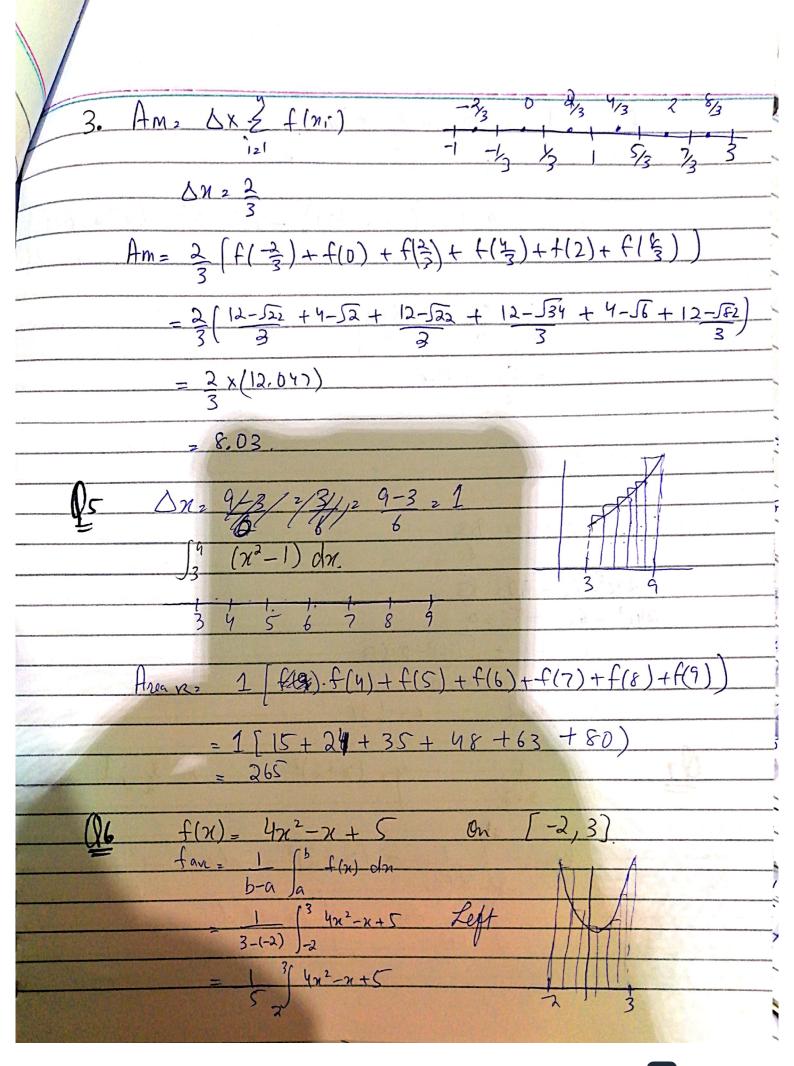
See²V e x 1 du

See²V du

See²V

See²V

P + tanv $f(n)_2 4 - \sqrt{n^2+2} \quad \theta n \quad [-1,3]$ 1. drea = & on f(ni) Ceft $\Delta x = b - a$ n = 6 $=\frac{3-(-1)}{7}=\frac{2}{3}$ Aug = 2 (f(-1)+f(1)+f(5) $+f(\frac{7}{5})+f(3)$ = 2 (12.7155) $=\frac{2}{3}\left[\frac{3}{3}+12-\sqrt{1}+4-\sqrt{3}+12-\sqrt{4}+4-\sqrt{1}\right]$ = 7.42. $\Delta \chi = \frac{2}{3}$ $\Delta \chi = \frac{2}{3}$ $\Delta \chi = \frac{2}{3}$ $\Delta \chi = \frac{2}{3} \left(\frac{1}{1} - \frac{1}{3} \right) + \frac{1}{3} + \frac{1}{3$ 2. Dn = 2 = 2 (12.7155) 4-511 - 9.48



fang $\frac{1}{5}$ $\times \frac{4x^3 - x^2 + 5x}{3}$ $=\frac{1}{5}\left(\frac{4(3)^3-(3)^2+5(3)}{3}-\frac{4(-2)^3-(3)^2+5(2)}{3}\right)$ $=\frac{1}{5}\left[\frac{93}{2}-\left(-68\right)\right]$ = 83 \(\) 13.8 f(c) forg. 402-0+5283 2402 -60. -53 20 C2 + 6 + 5 (-6)2-4644-53 2(24) C= 1.62 Cz-1,37 n= -3/2/ $\frac{y^2}{n+2} \qquad \qquad y_2 (x+2)^2$ drea $\int \frac{1}{x+2} - (x+2)^2$ dn $\frac{1}{n+2} \int \frac{1}{n+2} dn - \int (n+2)^2 dn$

 $\left| \ln (x+2) - (x+2)^3 \right|_{36}^{1}$ $= ln(3 \div \frac{1}{2}) - 9 + \frac{1}{24}$ Pn(6) - 215 _ -7.17.