$$\int x^{n} dx = \frac{x^{n+1}}{n+1}$$

$$\int x dn = \frac{x^{2}}{2} ; \int n^{2} dn = \frac{x^{3}}{3}$$

$$\int \frac{1}{n^{2}} dx = \int x^{2} dx = \frac{x^{2+1}}{n+1}$$

$$= \frac{x^{1}}{n} = -\frac{1}{n}$$

$$= \frac{x^{1}}{n^{2}} = -\frac{1}{n}$$

$$\int \frac{1}{n^{2}} dn = \int \frac{1}{n^{2}} dn = \int \frac{1}{n^{2}} dn$$

$$= \frac{x^{2}}{n^{2}} + \frac{y^{2}}{n^{2}} dn$$

$$= \int \left(\frac{n^{2} + y}{n^{2}}\right) dn = \int (1 + \frac{y}{n^{2}}) dn$$

$$= 2 + \int y = \frac{x^{2}}{n^{2}} dx$$

5000 do = + 5 8ino (3) (9 e 1/4 da (1) (1+3t) t2 dt T= ((+2+3+3) d+ T = +3 + 3. +4 Integlation by paets: Sundx = usudn - Selly), sudn dn I > Inverse L 7 Loganthen Aligeboneic Togowowskal Esysowentral

1) (n27dn $\int uv = u \int v du - \int \left(\frac{du}{dx} \cdot \int v dx \right) dx$ $\int u e^{2} dx = \pi \int e^{2} dx - \int \left(\frac{du}{dx} \cdot \int v dx \right) dx$ = 22 - 1 (e2) $=\frac{2}{2}$ Dasing da

Sundn = usedn - Sa(u). sudn dn

= xssimdn - Sa(u). ssimdn dx

= xssimdn - Samdn dx

$$= \chi \cdot (-4n) - \int (0) (-6n) dx$$

$$= -\chi \cdot (-4n) - \int (0) (-6n) dx$$

$$= -\chi \cdot (-6n) + 8 \sin x$$

$$= -\chi \cdot (-6n) + 8 \sin x$$

$$= -\chi \cdot (-6n) + 2 \cos x$$

$$= -\chi \cdot (-6n) + 2 \cos x$$

$$= -\chi \cdot (-6n) + 2 \cos x$$

$$= -\chi \cdot (-6n) - \int (-6n) dx$$

Bernoulli's Rule of Futedolin Juredn = uv, - uv, + u'v, - u'v, - u'v, t. Ju 2000 - 200, - 2002 + 21/2, ---- $=(\chi^2)(8511)-(21)(-681)+(2)(-851)$ -218inn +2ncoln -28inn/ 2385127 da $= (23) \left(-\frac{(22)}{2} \right) - (32) \left(-\frac{(32)}{22} \right) + (62) \left(\frac{(32)}{23} \right)$ -(6)(85122X) = - 7136012x + 372 8in2n + 376121 385 w2n