## Integration By Parts Ju. du = U. v - Sv. du du du du Enample Sln(n). Vn. dn solve? $\frac{2}{3}x^{3/2}$ $\frac{2}{3}x^{3/2}$ $\frac{1}{\pi} \cdot dn$ $\frac{1}{\pi} \cdot dn$ $\frac{1}{\pi} \cdot dn$ $\frac{1}{\pi} \cdot dn$

> Sln Grs. Jn. dr  $= \left(\ln(61), \left(\frac{2}{3}(n^{3}b^{2})\right)\right)$ => = 12. ln(n) -= Jn12. dn  $=\frac{2}{3}\sqrt{3}\sqrt{2} \ln(n) - \frac{4}{9}\chi^{3/2} + C$  $\Rightarrow \begin{bmatrix} \frac{2}{3}\sqrt{7}^{3}.\ln(7) - \frac{4}{9}\sqrt{7}^{3} \end{bmatrix}$ molem Solve Siner dn diff. du dy en Tint.

$$= 2.e^{x} - \int e^{x} \cdot 1$$

$$= e^{x} \cdot (x-1) \Big]_{0}^{2}$$

$$= \left(e^{2}(2-1)\right) - \left(e^{0}(0-1)\right)$$

$$= 7.389 - (-1) = 8.389$$