

Integration Review  $\int \frac{2}{4x^{2}+9} dx \qquad \int \frac{2x}{4x^{2}+9} dx$   $\frac{2}{9} \int \frac{1}{4x^{2}+1} dx \qquad U = 4x^{2}+9$  du = 8x dx du = 8x dx du = 2x U = 2x $\frac{2x+1}{4x^2}dx$ Jax du Ju du Ju du - 1/2 hn lul+C - 1/2 hn (4x +9)+C 2 37 11 2 11 11  $\frac{1}{3} + \frac{1}{4n} + C$   $\frac{1}{3} + \frac{1}{4n} + \frac{1}{3} + \frac{1}{3} + C$ 

 $\int \frac{4x^{5} - 2x^{3}}{2x^{2}} dx \qquad \int \frac{x - 2}{\sqrt{x - 1}} dx \qquad \begin{array}{l} \mathcal{U} = x - 1 \\ \mathcal{O} u = 1 dx \end{array}$   $\frac{1}{2} \int (4x^{5} - 2x^{3}) x^{-2} dx \qquad \int \frac{x - 2}{\sqrt{x - 1}} du \qquad u + 1 = x$   $\frac{1}{2} \int (4x^{3} - 2x) dx \qquad \int \frac{u + 1 - 2}{\sqrt{x - 2}} du$  $\int \frac{\mu + 1 - 2}{1 \lambda^{1/2}} d\mu$  $\int \frac{u-l}{(a'/2)} du$  $\int (u-1) \bar{u}^{1/2} du$  $\int [u^{1/2} - \bar{u}^{1/2}] dy$ 

 $\int_{12}^{12} (4x^2) \cdot u^8 \cdot \frac{dn}{(2x^2)^{2}} \frac{dn}{(2x^2)^{2}} \frac{1}{(2x^2)^{2}} \int_{12}^{12} (1x^6) \frac{dn}{dn}$ J\_ secutaru. Xdu SPC U+ C Spc (lanx)+ C