Lecture 21 $f(x) = x^{3} + c - 3 \qquad f'(x) = 3x^{2}$ $f(x) = x^{n} \longrightarrow f'(x) = 1$ JFCX)dx = fcm + C integrand antidecivatine symbol $x, dx = \frac{x^{n+1}}{n+1} + C.$ $(n \neq -1)$ differential $\int x^{\circ} dx = x^{\circ}$ Jkdr = kx +C $\int x^2 dx = \int \frac{dx}{x}$ = lu/x/+C $\int \frac{dx}{x^2} = \int x^2 dx$ $\left(\frac{1}{x}\right) = -\frac{1}{x^2}$ $=\frac{x}{-1}$ =-/x +C/ + 66 + + = 445 $\int X = \int X dx = \int X dx$ = 3 × 4/3 + C/