examples (1)  $0 \int \frac{1}{2\pi^{-3}} dx = \frac{2}{2} \int \frac{1}{2\pi^{-3}} dx = \frac{1}{2} \int \frac{2}{2x-3} dx$ = 1 /n /2x - 3/+C 2 Stangedx = Sink dx = - Sink dn Cosk 5 - In 1 cossel +c Sin3x Cosx dn = Sinx) Cosx dx 5 Sinx +c = 1 Sinx +c 4 ) 1 dx = 1 tan'2 +c 5) 1 dx = 1 tan(x)+c  $\int \frac{e^{x}}{x^{2}} dx = e^{x} + c$   $y = 2^{2x+7} \int \frac{1}{y}$   $= 2^{2x+7} \ln 2(5)$ J & ax+B dx = 1 + c c= 5 5x+7 dx 1 1 (5x+4)2 dx = (5x+4) dx = (5x+4)

9 ) - dx - 1 Sec (7)+c, ) -dx = cotinte  $\int - dx = cscx + c$  $\frac{e^{2x}}{(e^2+1)} dx = \frac{3e^2}{(e^2+1)} dx = \frac{1}{2} \ln |e^2x| + 1 + \epsilon$ 4 ) Da Csc (1+23) du = 3 (3 n2) csc (1+22) du 12 ) Sec (2x) dx = 3/2 Sec (2x) dx = 3/4 tan (2x3) +c 13 ) csc(5x) cot (5x) dx = -1 csc(5x) +6  $\frac{1}{\sqrt{16-x^2}} dx = \sin^2(\frac{x_4}{4}) + c \qquad \int \frac{1}{\sqrt{16(1-\frac{x^2}{16})}} dx$ 16 ] -1 dx = 1 (et (2) +c

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