$$\int x \cdot \operatorname{ord}_{\mathbf{y}}(x+1) \, dx = \int \frac{1}{(x+1)^{2}+1} \frac{x}{2}$$

$$= \frac{PP}{\operatorname{ord}_{\mathbf{y}}(x+1)} \cdot \frac{x^{2}}{2} - \int \frac{x^{2}}{(x+1)^{2}+1} \cdot \frac{x^{2}}{2} \, dx =$$

$$= \frac{x^{2}}{2} \cdot \operatorname{ord}_{\mathbf{y}}(x+1) \cdot \frac{1}{2} \cdot \int \frac{x^{2}}{x^{2}+1} \cdot \frac{$$

$$\int \frac{4x-5}{(x-2)(x-3)} dx = \int \frac{-3}{(x-2)} + \frac{7}{(x-3)} dx = -3 \cdot 2 \cdot |x-2| + 7 \cdot 2 \cdot |x-3| + C$$

$$4x-9 \qquad A \qquad B$$

 $\frac{4x-9}{(x-2)(x-3)} = \frac{A}{(x-2)} + \frac{B}{(x-3)}$ $\frac{Ax-3A+2Bx-2B}{(x-3)(x-3)} = \frac{(A+2B)x+(-3A-2B)}{(x-2)(x-3)}$ $\frac{1}{(x-2)(x-3)} = \frac{A}{(x-2)(x-3)}$ $\frac{1}{(x-2)(x-3)} = \frac{A}{(x-2)}$ $\frac{1}{(x-2)} = \frac{A}{(x-2)}$ $\frac{1$

PF. 16144 $\int \frac{1}{e^{x}+e^{-x}} dx = \left| \frac{1}{2} \right| = \left|$ $\int \frac{1}{n+\frac{2}{n}} \frac{1}{n} dn = \int \frac{1}{n^2+1} dn = \operatorname{covely}(n) + C =$ arely (et)+C Urcité integnal Pr. 16767 [ex] = ens = 1-6-1-5-1-4 Je de =

Pr. 16162 $\int_{-\pi}^{\pi} |\cos(x)| dx = 8 \cdot \int_{0}^{2\pi} |\sin(x)| dx = 8 \cdot \left[-\cos(x) \right]$ = 8. (-w(1/2)-w(0)) T 20 2 = 8.(0-(-1)) = 8 $\frac{\Pr_{x} 16180}{\int x^{2} e^{x} dx} = \frac{1}{2x^{2} e^{x}} = \frac{1}{2x^{2} e$ $= e - 2e + \left[2e^{x}\right]^{1} = \underbrace{e^{-2}}_{0}$ O - napried spoteful F(x) a ma hone indélur len writing (2) - more decaround prolume

$$\frac{\Pr. \ 16179}{16179} = \frac{1}{2} \cdot \int \frac{x^2}{x^2+1} dx = \frac{1}{2} \cdot \int \frac{x^2+1}{x^2+1} = \frac{1}{2} \cdot \int \frac{1}{x^2+1} = -\frac{1}{2} \cdot (x - and y \times)$$

$$\frac{\Pr. \ 16179}{16179} = \frac{1}{2} \cdot \int \frac{x^2}{x^2+1} dx = \frac{1}{2} \cdot \int \frac{1}{x^2+1} = -\frac{1}{2} \cdot (x - and y \times)$$

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$$\frac{PP}{x^2+1} dx = \frac{1}{2} \cdot \int \frac{x^2+1}{x^2+1} dx = -\frac{1}{2} \cdot (x - and y \times)$$

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