1. Qualovat  $+(y) = \sqrt{y}$ G(y) = 2x + 19 (4) = 2 = 7 (7) / dx - 4. (cos2x clx + 4. x4 dx avc ein x f

$$\int \frac{2}{3x} - \frac{4^{x}}{5} + \frac{2}{5} \sin x - \frac{6}{1+x^{2}} dx =$$

$$= \frac{2}{3} \int \frac{1}{x} dx - \frac{1}{5} \int \frac{1}{4} dx + \frac{2}{5} \int \frac{1}{5} \sin x dx - \frac{6}{5} \int \frac{1}{1+x^{2}} dx$$

$$= \frac{2}{3} \int \frac{1}{x} dx - \frac{1}{5} \int \frac{1}{4} dx + \frac{2}{5} \int \frac{1}{5} \cos x dx - \frac{6}{5} \int \frac{1}{1+x^{2}} dx$$

$$= \frac{2}{3} \int \frac{1}{x} \sin x - \frac{1}{5} \int \frac{1}{4} \cos x + \frac{2}{5} \int \frac{1}{5} \cos x + \frac{1}{5} \int \frac{1}{5} \cos$$

$$\int_{A} \frac{1}{1 - 4x^{2}} dx = b \cdot \int_{A} \frac{1}{1 - 12x^{2}} dx$$

$$f(y) = \int_{A-y^{2}} \frac{1}{1 - y^{2}} F(y) = orcsin y$$

$$0x + b = 2x + 0 \Rightarrow a = -2$$

$$-1 \cdot \frac{ovcsin(+2x)}{+2} + C$$

$$\int_{B} \frac{g(x)}{g(x)} dx = ln |g(x)| + C$$

$$\int_{B} \frac{e^{x}}{3 + e^{x}} dx = ln |3 + e^{x}| + C$$

$$\int_{A+2sin x} \frac{e^{x}}{4 + 2sin x} dx = \frac{1}{2} \int_{A+2sin x} \frac{1}{4 + 2sin x} dx = ln |A+2sin x|_{C}$$

$$g(x) = A + 2 sin x$$

$$g'(x) = 2 cos x$$

$$g'(x) = 2 cos x$$

$$\frac{G}{J^{2}x \cdot e} dx = \frac{6}{7} \left\{ \frac{7}{4x \cdot e} dx - l_{x} \right\}_{Tx \cdot e} dx = \frac{6}{7} \left\{ \frac{7}{4x \cdot e} dx - l_{x} \right\}_{Tx \cdot e} dx = \frac{6}{7} \left\{ \frac{1}{7} + \frac{1}{7$$

 $\int thx dx = \int \frac{shx}{chx} dx = \int \frac{e^{x} - e^{-x}}{2} dx$  $=\int \frac{e^{x}-e}{e^{x}-e} dx = \int \frac{e^{x}-e^{-x}}{e^{x}-e} dx = \int \frac{e^{x}-e^{-x}}{e^{x}-e} dx = \int \frac{e^{x}-e^{-x}}{e^{x}-e} dx = \int \frac{e^{x}-e^{-x}}{e^{x}-e^{-x}} d$  $\begin{vmatrix} x & -x \\ - & \ell \end{vmatrix} = \ell + \ell - \ell - \ell$