$$\int \frac{2 \times + 3}{x^{4}} dx = \int \frac{2}{x^{3}} dx + \int \frac{3}{x^{4}} dx = 2 \cdot \left(\frac{1}{-2 \cdot x^{3}}\right) + 3 \left(\frac{1}{-3 \cdot x^{3}}\right) + C$$

$$= -\frac{1}{x^{2}} - \frac{1}{x^{3}} + C$$

$$\int \frac{dx}{5-x^2} = \frac{1}{2\sqrt{5}} en \left(\frac{\sqrt{5} + x}{\sqrt{5} - x} \right) + C$$

$$\int \frac{dx}{\sqrt{3-x^2}} = \frac{1}{\sqrt{3}} \alpha \Gamma C S i M \frac{X}{\sqrt{3}} + C$$

Trogsegenne nog znak gupperemylæred $\int \sin^2 x \cos x \, dx = \int \sin^2 x \, d(\sin x) = \frac{\sin^3 x}{3} + C$ COSXXX = d(Sinx) d(Sin X) = cosx 3) $\int \frac{arctgx'}{1+x^2} dx = \int \frac{arctgx'}{x^2+1} dx =$ $= far(+gX) \cdot d(ar(+gX)) = 2 ar(+g^{\frac{3}{2}}X + C$

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 $\frac{1}{(3-4\sin x)^{\frac{1}{5}}\cos x} \cos x dx = |d(3-4\sin x)| = -4\cos x dx$ $\cos x dx = |d(3-4\sin x)| = -4\cos x dx$ $\frac{1}{\cos x dx} = \frac{1}{(3-4\sin x)^{\frac{1}{5}}}$

 $= \frac{1}{4^{3}} d4 = -\frac{1}{4} \cdot \frac{3}{4} \cdot \frac{4}{3} = -\frac{3}{16} \left(\frac{3 - 45}{n} \right) \cdot \frac{4}{3}$

 $= \frac{Cu|X+2|}{X+2} + \frac{3}{X+2} + C$