Heonpegenenni Unterpan

$$\int_{-1}^{1} \left(\frac{1}{x} + \frac{1}{x^{2}} \right) dx = \int_{-1}^{1} \frac{1}{x} dx + \int_{-1}^$$

2.
$$\int X(1-2x)^3 dx = \int X(-8x^3 + 12x^2 - 6x + 1) dx = \int (-8x^4 + 12x^2 - 6x^2 + x) dx =$$

$$= -8 \int x^4 dx + 12 \int x^3 dx - 6 \int x^2 dx + \int x dx = -8 \cdot \frac{t^5}{5} + 12 \cdot \frac{t^4}{4} - 6 \cdot \frac{t^3}{3} + \frac{t^2}{2} + C \sqrt{\frac{t^4}{4}}$$

3.
$$\int \frac{2x^2 + 3x^{\frac{1}{2}} - 1}{2x} dx = \int \frac{2x^2}{2x} dx + \int \frac{3x^{\frac{1}{2}}}{2x} dx - \int \frac{1}{2x} dx = \int x dx + \int \frac{3}{2} \int_{1}^{2} dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int_{1}^{2} dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx = \int x dx + \int \frac{3}{2} \int x dx - \int \frac{1}{2} \int x dx - \int \frac{1$$

$$= \frac{x^2}{2} + \frac{3}{2} \cdot \frac{5}{1_2} - \frac{1}{2} \cdot C_{h|x|}$$

$$\int \cos x \, dx = \sin x + C$$

$$\int y^{5x} \, dx = \int y^{5x} \, d(5x) = \frac{y^{5x}}{6n^{4}} + C$$

$$(\frac{1}{2}) = \frac{x^{1} \cdot 2 - 2^{1} \cdot x}{y} = \frac{1}{2}$$
5.
$$\int y^{5x} \, dx = \int y^{5x} \, d(5x) = \frac{1}{5} \cdot \frac{y^{5x}}{6n^{4}} + C$$

5.
$$\int y^{5x} dx = \int y^{5x} d(5x) = \frac{1}{5} \cdot \frac{y^{5x}}{e_{h}y} + C$$

7.
$$\int X(1-x)^{5} dx = \int (1-t)t^{5}(-dt) = \int -t^{5}t^{6}dt = \int t^{5}dt + \int t^{6}dt = -\frac{t^{6}}{6} + \frac{t^{7}}{7} + C \Rightarrow$$

(1-x)6 (1-x)7 +C

8.
$$\int \frac{x dx}{\sqrt{9-8x^2}} \bigcirc$$

$$\int \mathcal{L} = 9 - 8x^{2} \qquad -8x^{2} = \mathcal{L} - 9$$

$$+^{2} = \frac{\mathcal{L} \cdot 9}{8} \qquad (\frac{\mathcal{L} \cdot 1}{8})$$

$$t^2 = \frac{\cancel{\epsilon} + \cancel{3}}{8}$$
 $\sqrt{\frac{\cancel{\epsilon} + \cancel{J}}{8}}$