$$\frac{u_{H7eq} p_{a} u_{e7}}{Jpak Tura} \frac{v_{a} c_{76}}{J} \frac{1}{J} \frac{1}{Jpak Tura} \frac{v_{a} c_{76}}{J} \frac{1}{J} \frac{$$

W8.1.7 $\int \frac{dx}{x^2 + 3^2} = \frac{1}{2} \ln \left| x + \sqrt{x^2 + \alpha^2} \right| + C$ N8.1.89 $\int \frac{X^4 + X^2 - 6x}{X^3} dx = \int \int \frac{X^4}{X^3} dx +$ $f \int \frac{x^2}{x^3} dx = 6 \int \frac{x}{x^3} dx =$ 2 Sxdx + 1 x dx + -6 5 1/x2 dx 2 x2 + ln |x| - 6 · (-x) + C 2 x2 + (11)x + 6 x + C J(5/X-40/X3 - 3/217) dx 2 255 todx - 10 5 x /3 dx - 3 5 dx = 2 $= 5\ln|x| - 10 \frac{x^{7/3}}{\frac{x}{3}} - 3 \frac{1}{\sqrt{7}} \operatorname{croto} \frac{x}{\sqrt{7}} + 2$

$$\frac{25 \ln |x| - \frac{30 x^{\frac{4}{3}}}{7} - \frac{3}{\sqrt{7}} \operatorname{arctg} \frac{x}{\sqrt{7}} + C}{\sqrt{8.1.11}}$$

$$\int \sqrt{x} (x^{2}+1) dx = \int (x^{2} \sqrt{x} + \sqrt{x}) dx = 2$$

$$= \int x^{\frac{5}{2}} \operatorname{ol} x + \int \sqrt{x} \operatorname{ol} x = \frac{2x^{\frac{4}{2}}}{7} + \frac{2x^{\frac{3}{2}}}{3} + C$$

$$\frac{\sqrt{8.1.12}}{\sqrt{4} - x^{2}} dx = \frac{3}{\sqrt{4} - x^{3}} dx + \int dx = 2$$

$$\frac{\sqrt{8.1.12}}{\sqrt{4} - x^{2}} dx = \frac{3}{\sqrt{4} - x^{3}} dx + \int dx = 2$$

$$\frac{\sqrt{8.1.13}}{\sqrt{x}} \left(\frac{x^{3} + 2}{\sqrt{x}} \right)^{2} dx = 2$$

$$\frac{\sqrt{8.1.13}}{\sqrt{x}} dx + 4 \int x^{\frac{5}{2}} dx + 4 \int \frac{x}{\sqrt{x}} dx = 2$$

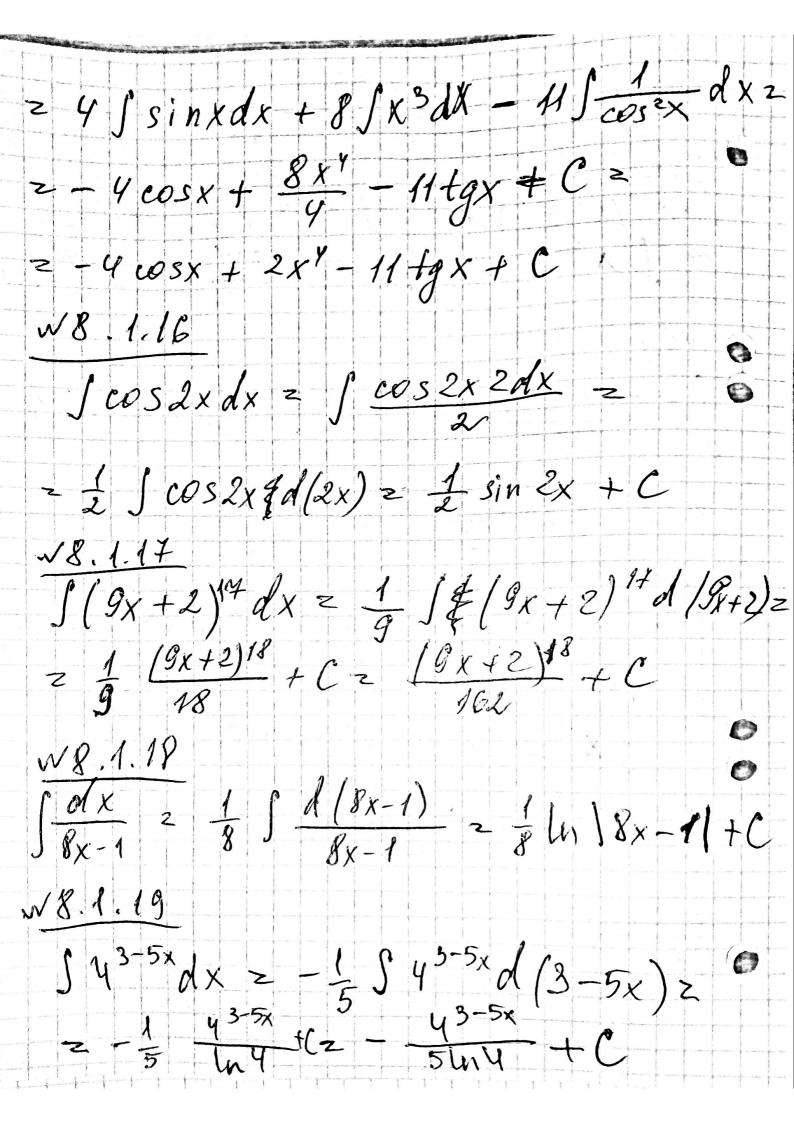
$$\frac{\sqrt{3}}{\sqrt{x}} dx + 4 \int x^{\frac{5}{2}} dx + 4 \int \frac{x}{\sqrt{x}} dx = 2$$

$$\frac{2x^{\frac{13}{2}}}{13} + \frac{8x^{\frac{2}{2}}}{7} + 8\sqrt{x} + C$$

$$\frac{\sqrt{8.1.14}}{\sqrt{x}} \left(\frac{x^{\frac{13}{2}}}{\sqrt{x}} + \frac{x^{\frac{13}{2}}}{\sqrt{x}} \right) dx = 2$$

$$\frac{\sqrt{8.1.14}}{\sqrt{x}} dx + 8x^{\frac{3}{2}} - \frac{4}{\cos^{2}x} dx = 2$$

$$\frac{\sqrt{8.1.14}}{\sqrt{x}} dx + 8x^{\frac{3}{2}} - \frac{4}{\cos^{2}x} dx = 2$$



$$\frac{\sqrt{8.1.20}}{\int \sqrt{3}x + 9'} dx = \frac{1}{3} \int \sqrt{3}x + 9' d/3x + 9' = \frac{1}{3} \frac{(3x + 9)^{3/2}}{\frac{3}{2}} + C = \frac{2(3x + 9)^{3/2}}{\frac{3}{2}} + C$$

$$\frac{\sqrt{8.1.21}}{\int \frac{dx}{3x^2 - 25}} = \frac{1}{\sqrt{3}} \cdot \frac{1}{\sqrt{3}} \int \frac{d(\sqrt{3}x)}{3x^2 - 25} = \frac{1}{\sqrt{3}} \cdot \frac{1}{2 \cdot 5} \int \frac{d(\sqrt{3}x)}{\sqrt{3}x^2 - 25} + C$$

$$= \frac{1}{\sqrt{3}} \cdot \frac{1}{2 \cdot 5} \int \frac{d(\sqrt{3}x)}{\sqrt{3}x^2 - 25} + C$$

$$= \frac{1}{\sqrt{3}} \cdot \frac{1}{2 \cdot 5} \int \frac{x\sqrt{3} - 5}{x\sqrt{3} + 5} + C$$

$$= \frac{1}{\sqrt{3}} \int \frac{dx}{\sqrt{3}} \int \frac{x\sqrt{3} - 5}{x\sqrt{3} + 5} + C$$

$$= \frac{1}{\sqrt{3}} \int \frac{dx}{\sqrt{3}} \int \frac{x\sqrt{3} - 5}{x\sqrt{3} + 5} + C$$

$$= \frac{1}{\sqrt{3}} \int \frac{dx}{\sqrt{3}} \int \frac{d(\sqrt{3}x)}{\sqrt{3}x^2 - 25} = \frac{1}{\sqrt{3}} \int \frac{dx}{\sqrt{3}} \int \frac{dx}{\sqrt{3}$$

W8.1.24 1 x - 2 dx = 1 x dffxx = $-2\int \frac{1}{x+3} d(x+3) = \int \frac{(x+3)-3}{x+3} d(x+3) =$ 2 / 1 d(x+3) 2 / d(x+3) 2 / d(x+3) 2 5 d(x+3) 2 5 d(888) - 5 5 d(x+3) 6 2 X15-5 ln | x+3 | +C $\int \frac{x^2 dx}{x^2 - 9} = \int \frac{(x^2 - 9) + 9}{x^2 - 9} dx = 2$ 2 J dx + 9 J dx 2 x + 9 3 1 2 x + 9 3 1 2 3 1 · ln | x -3 | + C = x + = ln | x + -3 | + co w 8.1.26 $\frac{5 + \sin^3 x}{\sin^2 x} dx = \frac{5}{5} \int \frac{dx}{\sin^2 x} + \int \sin x dx = 0$ 1 E -5 etgx - cosx + C