Documente granue R grong 10

(1) 
$$\int \frac{ge^{4}+ge^{2}-Gx}{ge^{3}} dge = \int ge-ge^{2}-Gge^{2} dge = \frac{ge^{2}}{2}+Ch(1x1)+12\frac{ge^{2}}{-1}+Ce = \\ = Ch(1ge1)+\frac{ge^{2}}{2}+\frac{G}{ge}+Ce = Ch(1x1)+\frac{ge^{3}+12}{2ge}+C$$
(2) 
$$\int cgg^{3}ggg^{3}ggg^{3}gg = \int f(ggg)gg -f = \int f(ggg)gg +f = \int f(gg)gg +f = \int f(gg$$

(2) 
$$\int \cos 2\pi d\pi = \left[ \int (a\pi + e) = \frac{1}{a} F(a\pi + e) + c \right] = \frac{1}{2} \sin 2\pi + c$$

$$\frac{5}{\sqrt{4-2e^{2t}}} de = \int \frac{5e}{\sqrt{4-2e^{2t}}} de = \int \frac{1}{\sqrt{4-2e^{2t}}} de = \int \frac{1}{\sqrt{4-2e^{2$$

$$-\frac{1}{2}\int_{\overline{U}}^{\rho} du = -\overline{U} = -\overline{U} - \overline{U} - 2e^{2t} + C$$

$$-\frac{1}{2}\int_{\overline{U}}^{\rho} du = -\overline{U} = -\overline{U} - 2e^{2t} + C$$

$$-\frac{1}{2}\int_{\overline{U}}^{\rho} du = -\overline{U} = -\overline{U} - 2e^{2t} + C$$

G 
$$\int \frac{d\alpha}{\sqrt{2}} = \frac{2 \ln (1+\sqrt{x})}{\sqrt{2}} = \frac{2 \ln (1+\sqrt$$

$$= 2 \ln (17100) + C$$

$$= 2$$

$$\frac{1}{2} \int \frac{1}{(k-2)u} du = \frac{2u(1-\frac{2}{u})}{4} = \frac{1}{(k-2)u} du = \frac{2u(1-\frac{2}{u})}{4} + C$$

$$\frac{1}{2} \int \frac{1}{2\sqrt{u}} du = \frac{2u(1-\frac{2}{u})}{2\sqrt{u}} du = \frac{2u(1-\frac{$$

• 
$$\int \sec(x)dx = \ln(\tan(x) + \sec(x))$$
 •  $\int \cot(x)\csc(x)dx = -\csc(x)$   
©  $\ln(\tan(x) + \sec(x)) - \csc(x)$   
 $\Rightarrow \frac{1}{2}\int \frac{1}{\cos(x)}\frac{1}{\sin(x)}dx = \frac{\ln(\tan(x) + \sec(x))}{2} - \frac{\csc(x)}{2} + C$   
©  $\int (2x + \sin 2x)dx = \int 2xdx = 2 \cdot \frac{\pi}{2} \Big|_{0}^{T} = \pi^{2} - 0 = \pi^{2}$   
•  $\int 2xdx = 2 \int xdx = 2 \cdot \frac{\pi}{2} \Big|_{0}^{T} = \pi^{2} - 0 = \pi^{2}$   
•  $\int 3\pi dxdx = \sin^{2}x \Big|_{0}^{T} = 0 - 0 = 0$   
©  $\int \sqrt{4x-2} = \frac{1}{x} e^{-1} + \frac{1}{x} e^{-1}$ 

(fa) 
$$\int_{0}^{+\infty} e^{-4x} dx = \lim_{\theta \to +\infty} \int_{0}^{\theta} e^{-4x} dx = \lim_{\theta \to +\infty} \left( -\frac{e^{-4x}}{2e} \right) \Big|_{0}^{\theta} = \lim_{\theta \to +\infty} \frac{-e^{-4x}}{e^{-4x}} \Big|_{0}^{\theta} =$$