

Do the following integration. Use as little scratch paper as possible.

$$\int \sin(3x) dx$$

$$\int e^{-1/2x} dx$$

$$\int 4x \cos(3x^2) dx$$

$$\int xe^{3x^2} dx$$

$$\int \frac{1}{\sqrt{4-x}} dx$$

$$\int \frac{3}{4-x} dx$$

$$\int \frac{3}{1+x} dx$$

$$\int \frac{4}{100-3x} dx$$

$$\int x\sqrt{4-x^2} dx$$

$$\int \frac{x}{\sqrt{1+x^2}} dx$$

$$\int \sin x \sqrt{4-\cos x} dx$$

$$\int \frac{e^x}{\sqrt{1+e^x}} dx$$

$$\int \frac{3}{x^3} dx$$

$$\int \frac{3}{e^{3x}} dx$$

$$\int \frac{2}{x \ln x} dx$$

$$\int \frac{2 \ln x}{x} dx$$

$$\int \frac{x}{1+9x^4} dx$$

$$\int \sqrt{3+5x} dx$$

$$\int \frac{2}{\sqrt[3]{2+x}} dx$$

$$\int \sin(2x) \sqrt[3]{1-\cos(2x)} dx$$

$$\int \frac{x+2}{x^2+4x+9} dx$$

$$\int \sec^2 x \tan x dx$$

$$\int \frac{3}{1+x^2} dx$$

$$\int 2^x dx$$

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

$$\int e^{\sin x} \cos x dx$$

$$\int \frac{3}{4+9x^2} dx$$

$$\int e^{\sin^2 x} \sin(2x) dx$$

$$\int \frac{3x}{4+9x^2} dx$$

$$\int x e^{\sin(x^2)} \cos(x^2) dx$$