

Log Rules for Integration

$$\int \frac{1}{x} dx = \ln |x| + C \qquad \int \frac{1}{u} du = \ln |u| + C$$

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Find the following

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

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

$$\int \frac{1}{x} dx = \ln |x| + C$$

$$\int \frac{1}{u} du = \ln |u| + C$$

Find the following

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

$$\int \frac{\sec^2 x}{\tan x} dx$$

$$\int \frac{1}{x} dx = \ln |x| + C$$

$$\int \frac{1}{u} du = \ln |u| + C$$

Find the following

$$\int \frac{x}{(x-1)^2} dx$$

$$\int_0^3 \frac{2x}{x^2 + 4} dx$$