Integration Rules for Exponential Functions

$$\int e^x \, dx = e^x + C \qquad\qquad \int e^u \, du = e^u + C$$

Find the following:

$$\int e^{2x-4} \, dx \qquad\qquad\qquad \int e^{-3x} \, dx$$

Find the following:

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

Find the following:

$$\int_0^4 e^{2x-4} \, dx$$

$$\int_{-1}^2 e^{-3x} \, dx$$

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