

INTEGRATING THE EXPONENTIAL FUNCTION

1 Write a primitive function for each of the following:

(a) e^{2x}

(b) e^{5x}

(c) $e^{-0.4x}$

(d) $5e^{2.5x}$

(e) $e^x + e^{-3x}$

(f) $e^{-2x} - e^{-x}$

2 Find: (a) $\int e^{-x} dx$

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

(c) $\int e^{-3x} dx$

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(d) $\int (e^{-t} - 1) dt$

(e) $\int (e^{2u} + u^2) du$

(f) $\int (e^{-2.5x} + e^{0.4x}) dx$