

$$2- v(t) = \frac{e^{5/t}}{3t^2}$$

$$du = \frac{5}{t^2} \quad \frac{3}{5} \int e^{5/t}$$

$$V(t) = \frac{3e^{5/t}}{5} + c$$

$$V(t) = \frac{3e^{5t}}{3} + c$$

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$$3- \int 3x \cot(6x^2-1) \sin(6x^2-1) dx$$

$$du = 12x$$

$$4 \int \ln|\sin(6x^2-1)| - \cos(6x^2-1)$$

$$\int \frac{\cos}{\sin} \sin = \int \cos dx$$

$$4 \ln|\sin(6x^2-1)| - 4 \cos(6x^2-1) + c$$

$$4 \ln|\sin(6x^2-1)| - 4 \cos(6x^2-1) + c$$

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$$4- \int 7 \sec(3x) \tan(3x) dx$$

$$du = 3$$

$$\frac{3}{7} \int \sec(3x)$$

$$\frac{3}{7} \sec(3x) + c$$

$$\frac{7 \sec(3x) + c}{3}$$

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