

SUBSTITUTION OF VARIABLES

$$y' = \frac{x + 3y}{2x}$$

$$y = ux$$

$$\frac{dy}{dx} = u + x \frac{du}{dx}$$

Soln

$$u + x \frac{du}{dx} = \frac{x + 3ux}{2x} = \frac{x(1+3u)}{2x} = \frac{1+3u}{2}$$

$$x \frac{du}{dx} = \frac{1+3u}{2} - \frac{u}{1} \Rightarrow \frac{1+u}{2} \quad \therefore x \frac{du}{dx} = \frac{1+u}{2}$$

$$\int \frac{2}{1+u} du = \int \frac{dx}{x} \Rightarrow 2 \ln(1+u) = \ln x + \ln c$$

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