

Separation of Variables

Quiz: Separation of Variables.

What is the general solution to the ODE $dy/dx = 2y + 1$? (Use separation of variables.)

Choices:

- a) $y = Ce^{2x} - 1$.
- b) $y = Ce^{x/2} - 2$.
- c) $x = y^2 + y + C$.
- d) $y = e^{x/2} + C$.
- e) $y = Ce^{2x} + 1$.
- f) $y = Ce^{2x} - 1/2$.
- g) $y = e^{2x} + C$.
- h) None of the above.

Pick what you think is the correct choice and then look at the answer.

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