

What is the general solution of

$$\frac{dy}{dx} = \frac{y^3 + yx^2}{x^3} ?$$

Select one:

- a. $-\frac{1}{2} \left(\frac{y}{x} \right)^2 = \ln(x) + C$
- b. $-\frac{1}{2} \left(\frac{y}{x} \right)^2 = \ln|x| + C$
- c. $\frac{1}{2} \left(\frac{y}{x} \right)^2 = \ln|x| + C$
- d. $-\frac{1}{2} \left(\frac{x}{y} \right)^2 = \ln|x| + C$

What is the general solution of

$$\frac{dy}{dx} = \frac{y^2 + yx - x^2}{yx} ?$$

Select one:

- a. $\frac{y}{x} + \ln \left| \frac{y}{x} - 1 \right| = \ln|x| + C$
- b. $y + \ln|y - 1| = \ln|x| + C$
- c. $\frac{y}{x} + \ln \left(\frac{y}{x} - 1 \right) = \ln(x) + C$
- d. $\frac{y}{x} + \ln \left| \frac{y}{x} - 1 \right| = \frac{1}{2}x^2 + C$