

Bonus 1 - řešení (končí)

① separ. prom.: $y' = \frac{y^2}{x+1}$, $y' = x^2 \sqrt{y}$, $y' = (y+1)^3$

② $\frac{dy}{dx} = \frac{x-2}{y^2}$

$$\int y^2 dy = \int (x-2) dx$$

$$\frac{y^3}{3} = \frac{x^2}{2} - 2x + C$$

$y(0) = 3$: $9 = C \Rightarrow \frac{y^3}{3} = \frac{x^2}{2} - 2x + 9$

$$y = \sqrt[3]{\frac{3x^2}{2} - 6x + 27}$$

③ $y = c \cdot e^{\frac{x^4}{4}}$