$$y' - \frac{2}{x+2} y = 2(x+2)^{3}$$

$$y' - \frac{2}{x+2} y = 0 \rightarrow \frac{dy}{dx} = \frac{2}{x+2} y \rightarrow \int \frac{dy}{y} = \int \frac{2}{x+2} dx = 1$$

$$lmy = 2 lm(x+2) + C$$

$$y = e^{2lm(x+2) + C}$$

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$$2K'X + 4K - \frac{2}{x+2} 2K(x+2) = 2(x+2)^{3}$$
$$2K'(x) = 2(x+2)^{3}$$

$$K(x) = \int \frac{(x+2)^3}{x} dx = \frac{x^3}{3} + 3x^2 + 12x + 8 \ln x + C$$
, CEIR

$$Y = \left(2 \frac{x^{3}}{3} + 6x^{2} + 24x + 16 \ln x + 2C\right) \left(x+2\right), CEIR$$
So heavin emación diferencial