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[Solucionario Ecuaciones Diferenciales Isabel Carmona 417](#)

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¿QUÉ SON LAS ECUACIONES DIFERENCIALES?

9. Ecuación

$$xy' = 7$$

Solución general

A. $y = 7 \ln x + c$

B. $y = \frac{7}{2}x^2 + c$

C. $y = \ln x + c$

D. $y = \ln cx^7$

Condición inicial

$$y(1) = 7$$

Valor de las constantes

$$c = 7$$

$$c = \frac{7}{2}$$

$$c = 7$$

$$c = e^{-7}$$

10. Ecuación

$$y'' = 2x + 1$$

Solución general

A. $6y = 2x^3 + 3x^2 + c_1x + c_2$

B. $y = \frac{1}{3}x^3 + \frac{1}{2}x^2 + c_1x + c_2$

C. $y = x^2 + c_1x + c_2$

D. $y = \frac{1}{3}x^3 + \frac{1}{2}x + c_1x + c_2$

Condición inicial

$$y(0) = 1$$

$$y'(1) = -1$$

Valor de las constantes

$$\begin{cases} c_1 = 1 \\ c_2 = -12 \end{cases}$$

$$\begin{cases} c_1 = -3 \\ c_2 = 1 \end{cases}$$

$$\begin{cases} c_1 = -3 \\ c_2 = 1 \end{cases}$$

$$\begin{cases} c_1 = -\frac{13}{6} \\ c_2 = 1 \end{cases}$$

11. Ecuación

$$y'' = e^x$$

Solución general

A. $y = e^x + c_1x + c_2$

B. $y = c_1e^x + c_2$

C. $y = c_1 + c_2x + e^{2x}$

D. $y = e^x + c_1x + c_2$

Condiciones iniciales

$$y(0) = \ln 2$$

$$y'(\ln 2) = 0$$

Valor de las constantes

$$\begin{cases} c_1 = \ln 2 - 1 \\ c_2 = -2 + (\ln 2)(\ln 2 - 1) \end{cases}$$

$$\begin{cases} c_1 = 0 \\ c_2 = \ln 2 \end{cases}$$

$$\begin{cases} c_1 = \ln 2 - 1 \\ c_2 = 0 \end{cases}$$

$$\begin{cases} c_1 = -2 \\ c_2 = \ln 2 - 1 \end{cases}$$



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