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Nombre del trabajo: Ejercicios de repaso.

Materia: Ecuaciones diferenciales.

Grado: Tercer cuatrimestre.

Grupo: ISC13SDC0119-F

$$\frac{\partial y}{\partial x} = 7xy$$

$$\frac{\partial y}{\partial x} = -7xydx$$

$$\frac{\partial y}{y} = -7xdx$$

$$\int \frac{\partial y}{y} = -7xdx$$

$$Lny = -\frac{7x^2}{2} + c$$

$$Y = e^{-\frac{7x^2}{2}} + c$$

$$Y = e^{-\frac{7x^2}{2}} \cdot e^{-\frac{7x^2}{2}}$$

$$Y = Ce^{-\frac{7x^2}{2}} \cdot e^{-\frac{7x^2}{2}}$$

$$\frac{\partial dy}{\partial x} = 7x$$

$$\frac{\partial y}{\partial x} = 7x dx$$

$$\int \frac{\partial y}{\partial x} = \sqrt{\frac{7}{2}} dx$$

$$y = \int -\frac{7x^2}{2} + C$$

$$Y = -\frac{7x^2}{2} + C$$

$$3 y' - e^{3x - y}$$

$$Y' = e^{3x}$$

$$Y' = e^{3x}$$

$$e^{y}dy = e^{3x}dx$$

$$\int e^{y}dy = \int e^{3x}dx$$

$$\int e^{y}dy = \int e^{0}dy$$

$$\int e^{0}dy = \int e^{0}dy$$

$$Y' = \int e^{$$

$$\frac{\partial y}{\partial x} = e^{x+y}$$

$$\frac{\partial y}{\partial x} = e^{x} \cdot e^{y}$$

$$\frac{\partial y}{\partial y} = e^{x} \cdot e^{y}$$

$$\frac$$

(a)
$$3 + e^{-3x} y' = 0$$
 $\frac{Y(0) = 2}{3 + e^{-3x}}$ $\frac{dy}{dx} = 0$ $e^{-3x} \frac{dy}{dx} = 3$ $e^{-3x} \frac{dx}{dx}$ e^{-

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$$2 + e^{6x} Y' = 0$$

 $2 + e^{6x} \frac{dy}{dx} = 0$
 $e^{6x} \frac{dy}{dx} = -2$
 $e^{6x} \frac{dy}{dx} = -2$
 $e^{6x} \frac{dy}{dx} = -2 \left[\frac{1}{e^{6x}} \right] \frac{dx}{dx}$
 $\int dy = -2 \int e^{-6x} dx$
 $\int dy = -2 \int e^{-6$