

7-Mar-21

4 Pasos

Tarea 1

$$y^3 + 8$$

$$1^{\circ} \quad y + \Delta y = (x^3 + \Delta x)^3 + 8$$

$$2^{\circ} \quad y + \Delta y = x^3 + 3x^2 \Delta x + 3x \Delta x^2 + \Delta x^3 + 8$$

$$\begin{array}{r} - \\ y = x^3 \end{array} \qquad \qquad \qquad - 8$$

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$$\Delta y = 3x^2 \Delta x + 3x \Delta x^2 + \Delta x^3$$

$$3^{\circ} \quad \frac{\Delta y}{\Delta x} = \frac{3x^2 \cancel{\Delta x}}{\cancel{\Delta x}} + \frac{3x \Delta x^2}{\cancel{\Delta x}} + \frac{\Delta x^3}{\cancel{\Delta x}}$$

$$\frac{\Delta y}{\Delta x} = 3x^2 + 3x \cancel{\Delta x}^0 + \cancel{\Delta x}^0$$

$$4^{\circ} \quad \frac{\Delta y}{\Delta x} = 3x^2$$

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