

10,00

P L A N T E L

NOMBRE: Cattleja Mikaela Guevara Delgado.

ASIGNATURA: Matemáticas

PROFESOR:

CURSO: 2do Semestre "A"

SECCION:

FECHA:

TRIMESTRE:

Nº:
CALIFICACION

12.

FIRMA - PROFESOR

$$y = \sqrt{x+2}$$

$$\frac{1}{1} + \Delta y = \sqrt{x+2}$$

$$= \sqrt{x+2}$$

$$\Delta y = (\sqrt{x+2+\Delta x} - \sqrt{x+2}) \cdot \frac{\sqrt{x+2+\Delta x} + \sqrt{x+2}}{\sqrt{x+2+\Delta x} + \sqrt{x+2}}$$

$$\Delta y = \frac{\sqrt{x+2+\Delta x}^2 - (\sqrt{x+2})^2}{\sqrt{x+2+\Delta x} + \sqrt{x+2}}$$

$$\Delta y = \frac{x+2+\Delta x - x-2}{\sqrt{x+2+\Delta x} + \sqrt{x+2}}$$

$$\Delta y = \frac{\Delta x}{\sqrt{x+2+\Delta x} + \sqrt{x+2}}$$

$$\frac{\Delta y}{\Delta x} = \frac{1}{\sqrt{x+2+\Delta x} + \sqrt{x+2}}$$

$$\lim_{\Delta x \rightarrow 0} \frac{\Delta y}{\Delta x} = \frac{1}{\sqrt{x+2+0} + \sqrt{x+2}}$$

$$y = \frac{1}{\sqrt{x+2} + \sqrt{x+2}}$$

$$y = \frac{1}{2\sqrt{x+2}} \cdot \frac{\sqrt{x+2}}{\sqrt{x+2}}$$

$$y = \frac{\sqrt{x+2}}{2\sqrt{(x+2)}} \quad \text{---}$$

$$y = \frac{\sqrt{x+2}}{2(x+2)}$$

$$y = \frac{\sqrt{x+2}}{2x+4}$$