Tarea 2 Semana del 27 de febrero al 3 de marzo

Instrucciones. Determinar el valor aproximado de la Integral usando:

- a) Regla del Trapecio
- b) Regla de Simpson

1.4424 + 1.8784+0.8102)

 $A \approx \frac{1}{20}(22.3808) \approx 1.1190$ 

$$\int_{2}^{3} \frac{1}{\ln x} dx, \quad n = 10$$

$$\int_{2}^{3} \frac{1}$$

A≈1.1190

$$A \approx \frac{\Delta \times}{3} \left( f(x_0) + {}^{q}f(y_1) + 2 (f(x_2)) - 2 (2x_{1-2}) + 4 (f(y_{1-1})) + f(x_{10}) \right) C_{2,3} T_{n=10}$$

$$\Delta x = \frac{b-a}{n} = \frac{3-2}{10} = \frac{1}{10}$$

$$X_1 = 2 + 1 \Delta x$$

$$X_0 = 2 + 0 \left( \frac{1}{10} \right) = 2 + 0 = 2$$

$$X_1 = 2 + 1 \left( \frac{1}{10} \right) = 2 + \frac{21}{10} = \frac{21}{10}$$

$$X_2 = 2 + 2 \left( \frac{1}{10} \right) = 2 + \frac{2}{10} = \frac{21}{10}$$

$$X_3 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{23}{10}$$

$$X_4 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{23}{10}$$

$$X_4 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{23}{10}$$

$$X_4 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{23}{10}$$

$$X_5 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{5}{10} = \frac{25}{10}$$

$$X_6 = 2 + 6 \left( \frac{1}{10} \right) = 2 + \frac{5}{10} = \frac{26}{10}$$

$$X_6 = 2 + 6 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{25}{10}$$

$$X_7 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{25}{10}$$

$$X_8 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{3}{10} = \frac{25}{10}$$

$$X_8 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{5}{10} = \frac{25}{10}$$

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$$X_8 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{5}{10} = \frac{25}{10}$$

$$X_9 = 2 + 3 \left( \frac{1}{10} \right) = 2 + \frac{5}{10} = \frac{25}{10}$$

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$$X_9 = 2 + 3 \left( \frac{1}{10} \right) = 2 +$$

 $A \approx \frac{1}{30} (1.4427 + 5.3912 + 2.5366 + 9.8024 + 2.2844 + 4.3654 + 2.0437 + 4.0271 + 1.9424 + 3.7568 + 0.9102)$ 

$$A \approx \frac{1}{30} (33.5623) \approx 1.1187$$

A≈1.1187

Voiguez Blancas Cosor Said 6/Marzo/2023