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# newton

Subject:

Aim:aim

Apparatus:inst

Diagram:

Graphically

For First line:-

$$\text{Slope} = E_1 = \frac{88.17 - 44.08}{0.00051 - 0.00035}$$
$$E_1 = \underline{\underline{226102.564}}$$

For Second line:-

$$\text{Slope} = E_2 = \frac{132.26 - 88.17}{0.00074 - 0.00051}$$
$$E_2 = \underline{\underline{191695.65}}$$

For third line:-

$$\text{Slope} = E_3 = \frac{154.30 - 132.26}{0.0018 - 0.00074}$$
$$E_3 = \underline{\underline{64823.5294}}$$

For fourth line:-

$$\text{Slope} = E_4 = \frac{176.34 - 154.30}{0.001465 - 0.0018}$$
$$E_4 = 58956$$
$$\text{Average} = \underline{\underline{135,344 \text{ N/m}^2}}$$

Theory: