

## ELECTROSTATICS/ELEKTROSTATIKA

$$F = \frac{kQ_1Q_2}{r^2}$$

$$E = \frac{kQ}{r^2}$$

$$V = \frac{W}{q}$$

$$E = \frac{F}{q}$$

$$n = \frac{Q}{e} \quad \text{or/of} \quad n = \frac{Q}{q_e}$$

## ELECTRIC CIRCUITS/ELEKTRIESE STROOMBANE

$$R = \frac{V}{I}$$

$$\text{emf } (\varepsilon) = I(R + r)$$

$$\text{emk } (\varepsilon) = I(R + r)$$

$$R_s = R_1 + R_2 + \dots$$
$$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$$

$$q = I\Delta t$$

$$W = Vq$$

$$W = VI\Delta t$$

$$W = I^2R\Delta t$$

$$W = \frac{V^2\Delta t}{R}$$

$$P = \frac{W}{\Delta t}$$

$$P = VI$$

$$P = I^2R$$

$$P = \frac{V^2}{R}$$

## ALTERNATING CURRENT/WISSELSTROOM

$$I_{\text{rms}} = \frac{I_{\text{max}}}{\sqrt{2}} \quad / \quad I_{\text{wgk}} = \frac{I_{\text{maks}}}{\sqrt{2}}$$

$$V_{\text{rms}} = \frac{V_{\text{max}}}{\sqrt{2}} \quad / \quad V_{\text{wgk}} = \frac{V_{\text{maks}}}{\sqrt{2}}$$

$$P_{\text{ave}} = V_{\text{rms}} I_{\text{rms}} \quad / \quad P_{\text{gemiddeld}} = V_{\text{wgk}} I_{\text{wgk}}$$

$$P_{\text{ave}} = I_{\text{rms}}^2 R \quad / \quad P_{\text{gemiddeld}} = I_{\text{wgk}}^2 R$$

$$P_{\text{ave}} = \frac{V_{\text{rms}}^2}{R} \quad / \quad P_{\text{gemiddeld}} = \frac{V_{\text{wgk}}^2}{R}$$

# Physical Science Mpumalang Question Paper Grade 12

**J Elliott**



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