

37.3

Done:

$$\Delta\varphi_A = 60^\circ$$

$$\Delta\varphi_B = 90^\circ$$

$$\Delta\varphi_C = 120^\circ$$

$$A = 30 \text{ cm}$$

Sumame:

$$A'_A = ?$$

$$A'_B = ?$$

$$A'_C = ?$$

Wort:

$$A' = 2A \left| \cos \frac{\varphi}{2} \right|$$

Resultate

$$A'_A = 2A \left| \cos \frac{\varphi_A}{2} \right| = 60 \text{ cm} \left| \cos 30^\circ \right| = 60 \text{ cm} \cdot \frac{\sqrt{3}}{2} \approx 51,96 \text{ cm}$$

$$A'_B = 2A \left| \cos \frac{\varphi_B}{2} \right| = 60 \text{ cm} \left| \cos 45^\circ \right| = 60 \text{ cm} \cdot \frac{\sqrt{2}}{2} \approx 42,42 \text{ cm}$$

$$A'_C = 2A \left| \cos \frac{\varphi_C}{2} \right| = 60 \text{ cm} \left| \cos 120^\circ \right| = 60 \text{ cm} \cdot \frac{1}{2} = 30 \text{ cm}$$

Qsp; $A'_A \approx 51,96 \text{ cm}$

$$A'_B \approx 42,42 \text{ cm}$$

$$A'_C = 30 \text{ cm}$$