

task_ddjurcpk494go2q1_with_calculation

Student Group

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Exercise E1 Capacitor (written test, approx. 12 % of a 120-minute written test, SS2024) 2

4. Plot the graph of the magnitude of $D(x)$ from $x = (-0.6 \text{ mm} | 0)$ to $x = (0.6 \text{ mm} | 0)$ in one diagram. Use proper dimensions and labels for the diagram!

Path

```
\begin{align*} C &= \varepsilon_0 \varepsilon_r \frac{A}{d} \quad \text{with } \varepsilon_r = 8.854 \cdot 10^{-12} \text{ As/Vm} \\ &\quad \cdot 1 \cdot \frac{\{25 \cdot 10^{-6} \text{ m}\}^2}{200 \cdot 10^{-6} \text{ m}} \end{align*}
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