First try at LaTeX

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1 First Problem

text text text

$$\bigtriangledown \cdot \left(\frac{1}{\rho} \bigtriangledown P \right) + \frac{\omega^2}{B} P = 0$$

as ρ is a constant it can be taken out of the gradient and multiplied through the equation.

$$\bigtriangledown^2 P + k^2 p = 0$$

$$i.e. \qquad \frac{\partial^2 P}{\partial x^2} + \frac{\partial^2 P}{\partial y^2} + k^2 p = 0$$

2 blegh

$$x^2 \tag{1}$$