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$$\frac{\partial}{\partial x} \left(\frac{\partial \phi}{\partial x} \right) = \frac{\partial^2 \phi}{\partial x^2}$$

$$\frac{\mathfrak{A}}{\mathfrak{A}'} \quad \frac{\mathfrak{B}}{\mathfrak{B}'} \quad \frac{\mathfrak{C}}{\mathfrak{C}'} \quad \frac{\mathfrak{D}}{\mathfrak{D}'} \quad \frac{\mathfrak{E}}{\mathfrak{E}'} \quad \frac{\mathfrak{F}}{\mathfrak{F}'} \quad \frac{\mathfrak{G}}{\mathfrak{G}'} \quad \frac{\mathfrak{H}}{\mathfrak{H}'} \quad \frac{\mathfrak{I}}{\mathfrak{I}'} \quad \frac{\mathfrak{J}}{\mathfrak{J}'} \quad \frac{\mathfrak{K}}{\mathfrak{K}'} \quad \frac{\mathfrak{L}}{\mathfrak{L}'} \quad \frac{\mathfrak{M}}{\mathfrak{M}'} \quad \frac{\mathfrak{N}}{\mathfrak{N}'} \quad \frac{\mathfrak{O}}{\mathfrak{O}'} \quad \frac{\mathfrak{P}}{\mathfrak{P}'} \quad \frac{\mathfrak{Q}}{\mathfrak{Q}'} \quad \frac{\mathfrak{R}}{\mathfrak{R}'} \quad \frac{\mathfrak{S}}{\mathfrak{S}'} \quad \frac{\mathfrak{T}}{\mathfrak{T}'} \quad \frac{\mathfrak{U}}{\mathfrak{U}'} \quad \frac{\mathfrak{V}}{\mathfrak{V}'} \quad \frac{\mathfrak{W}}{\mathfrak{W}'} \quad \frac{\mathfrak{X}}{\mathfrak{X}'} \quad \frac{\mathfrak{Y}}{\mathfrak{Y}'} \quad \frac{\mathfrak{Z}}{\mathfrak{Z}'}$$

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[illegible]

The diagram shows a horizontal beam of total length $2a$. A distributed load q acts downwards over the entire length. A point load P acts downwards at the center. The beam is supported by a pin support at the left end and a roller support at the right end. The distance from the left support to the center is a , and from the center to the right support is a . The coordinate x is measured from the left support.

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