of
$$g$$
 = $sin(kx) \cdot cos(kct)$
 vi indsatter i wave sorm.

$$\frac{d^2u}{dt^2} = c^2 \frac{d^2u}{dx^2}$$

$$\frac{d^2u}{dt^2} = c^2 \cdot \frac{d^2u}{dx^2}$$

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$$\frac{d^2u}{dt^2} = c^2 \cdot \frac{d^2u}{dx^2} = c^2 \cdot$$