$$\frac{\partial w}{\partial t} = \frac{\partial w}{\partial t} \cdot (\cos(x+ct) \cdot (0+ct)) = \cos(x+ct) \cdot c$$

$$\frac{\partial w}{\partial t} = \frac{\partial w}{\partial t} \cdot (\cos(x+ct) \cdot c) = -\sin(x+ct) \cdot (0+ct) \cdot (0+ct) \cdot c^{2}$$

$$\frac{\partial w}{\partial t} = \frac{\partial w}{\partial t} \cdot (\cos(x+ct) \cdot c) = -\sin(x+ct) \cdot (0+ct) \cdot 1 = \cos(x+ct)$$

$$\frac{\partial w}{\partial t} = \frac{\partial w}{\partial t} \cdot (\cos(x+ct) \cdot (1+ct) - \cos(x+ct) \cdot 1 = \cos(x+ct)$$

$$\frac{\partial^{2}w}{\partial t} = \frac{\partial w}{\partial t} \cdot (\cos(x+ct)) = -\sin(x+ct) \cdot (1+ct) \cdot (1+ct) \cdot (1+ct)$$

$$\frac{\partial^{2}w}{\partial t} = c^{2} \cdot \frac{\partial^{2}w}{\partial t} \cdot (\cos(x+ct)) = c^{2} \cdot -\sin(x+ct)$$

$$\frac{\partial V}{\partial t} = V'(x,t) = \cos(x+ct) + \cos(x+2ct) \\
= \cos(x+ct) + 1c - \sin(x+2ct) \\
= \cos(x+ct) + 1c - \sin(x+2ct)$$

$$\frac{\partial^{2}V}{\partial t^{2}} = \frac{1}{2} \cdot (c \cos(x+ct) + 1c - \sin(x+2ct) + 1c - \cos(x+2ct) + 1c - \cos(x$$