For the following wave equation,

$$
\frac{\partial^{2} y(x, t)}{\partial t^{2}}=c^{2} \frac{\partial^{2} y(x, t)}{\partial x^{2}}
$$

one of the solutions has the form:

$$
y(x, t)=e^{j(7 t-5 x)}
$$

From this solution, determine the numerical value of $c$ in the wave equation.

