Test.wl

 $\ln[1]:= \text{Solve}[\{\partial_{t}y[x, t] + 2 \partial_{x}y[x, t] == \text{Sin}[x], y[0, t] == \text{Cos}[t]\}, y[x, t], \{x, t\}]$

Out[1]=
$$\left\{ \left\{ y[x, t] \rightarrow \frac{1}{2} \left(1 + 2 \cos \left[t - \frac{x}{2} \right] - \cos [x] \right) \right\} \right\}$$

In[2]:= sol2 = sol1[1, 1, 2]

Out[2]=
$$\frac{1}{2}\left(1 + 2 \cos\left[t - \frac{x}{2}\right] - \cos[x]\right)$$

In[3]:= Plot3D[sol2, {x, -10, 10}, {t, -5, 5}]

