Test.wl

In[◦]:= `sol1 = DSolve[{∂_t y[x, t] + 2 ∂_x y[x, t] == Sin[x], y[0, t] == Cos[t]}, y[x, t], {x, t}]`

$$\left\{\left\{y[x,\ t] \to \frac{1}{2}\left(1 + 2\,Cos\left[t - \frac{x}{2}\right] - Cos[x]\right)\right\}\right\}$$

In[◦]:= `sol2 = sol1[[1, 1, 2]]`

$$\frac{1}{2}\left(1 + 2\,Cos\left[t - \frac{x}{2}\right] - Cos[x]\right)$$

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