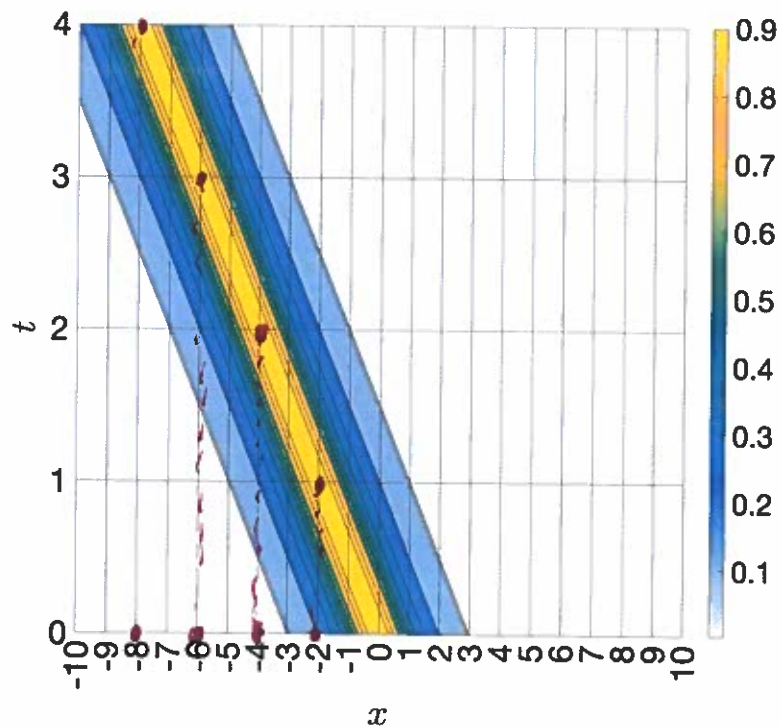


MTH 352
Quiz #2

1. The figure below is a contour plot of the $u(x, t)$, i.e., the colors indicate the value of u at a location (x, t) .



Write down a partial differential equation that $u(x, t)$ could satisfy.

The initial data shifts to the left at speed $c=2$
So
 $u_t - 2u_x = 0.$