Jon Allen

HW 18

Plot the solution $u(x,t)$ for $t = 0.01, 0.1, 1.0$ with $\alpha^2 = 1$

$$u(x,t) = \frac{1}{2}\left[\mathrm{erf}\left(\frac{x+1}{2\sqrt{t}}\right) - \mathrm{erf}\left(\frac{x-1}{2\sqrt{t}}\right)\right]$$