

AMATH 353: Homework 3

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Part 1.) With some slight rearrangement we have:

$$u(x, t) = \frac{3}{1 + \cos^2(7(x - \frac{5}{7}t) + 2)} \quad (1)$$

This is a traveling wave solution with $c = \frac{5}{7}$ and f , suppose some $f(z)$, as follows:

$$f(z) = \frac{3}{1 + \cos^2(7z + 2)} \quad (2)$$

Bla