

GROUP WORK I, SECTION 2.5

Exploring Continuity

1. Are there values of c and m that make $h(x) = \begin{cases} cx^2 & \text{if } x < 1 \\ 4 & \text{if } x = 1 \\ -x^3 + mx & \text{if } x > 1 \end{cases}$ continuous at $x = 1$? Find c and m , or explain why they do not exist.