MHF 3202, Dr. Block, Problem Set 1, due 3-18-2020

1. Suppose that t is a real number. Prove that there exists a real number w such that $\frac{w+1}{w-2} = t$ if and only if $t \neq 1$.
2. Prove that for every $\epsilon > 0$ there exists $\delta > 0$ such that if $x \in \mathbb{R}$ and $|x - 3| < \delta$, then $|x^2 - 5x + 6| < \epsilon$.