18.702 Quiz 6

Take this quiz any time on Friday, May 14.

As always: You are required to do the quiz alone. You may consult the text, but no other source.

The problem:

Let $K = \mathbb{C}(t)$ be the field of rational functions in t with complex coefficients, let σ and τ be the automorphisms of K defined by $\sigma(t) = -t$ and $\tau(t) = t^{-1}$, and let G be the group of automorphisms they generate. Determine the fixed field K^G , and justify your assertions.