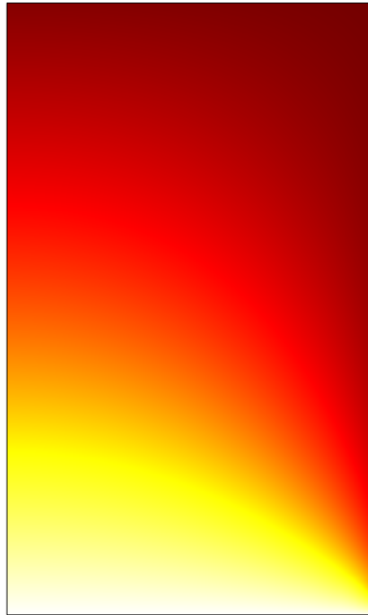


AME40541/60541: Finite Element Methods
Homework 1 Solutions

Problem 1: $T(0.3, 0.1) = 80.071$



Problem 2: Other than one outlier, the quadratic elements converge to the maximum von Mises stress much more rapidly than linear elements (near $2.15\text{e}6$). Even on the finest mesh, the stress predicted by the linear elements is only $2.10\text{e}6$.

