MATH 202: VECTOR CALCULUS
READING QUESTIONS FOR WEDNESDAY WEEK 2

Problem 1. A square matrix is *orthogonal* if $A^\top A = I$. Give a short proof that $\det(A) = \pm 1$ whenever A is orthogonal.

Problem 2. Interpret Theorem 1.3 in light of Theorem 3.1. Why does this make sense geometrically?