

Math 1553 Worksheet §5.2

1. Let  $A = \begin{pmatrix} 2 & -8 & 6 & 8 \\ 3 & -9 & 5 & 10 \\ -3 & 0 & 1 & -2 \\ 1 & -4 & 0 & 6 \end{pmatrix}$ .

a) Compute  $\det(A)$  using row reduction.

b) Compute  $\det((A^T)^5)$  without doing any more work.

c) Compute  $\det(A^{-1})$  without doing any more work.