

MATH 1553
QUIZ #6: §§5.1–5.3

Name		Section	
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1. [2 points each] In this problem we consider these matrices:

$$A = \begin{pmatrix} 2 & 5 & -3 \\ -2 & -5 & 0 \\ -5 & -4 & 4 \end{pmatrix} \quad B = \begin{pmatrix} 2 & 5 & 0 & -3 \\ -2 & 2 & 1 & -1 \\ -2 & -5 & 0 & 0 \\ -3 & -6 & -1 & 5 \end{pmatrix} \quad C = \begin{pmatrix} 4 & 0 & 0 & 0 \\ -5 & -1 & 0 & 0 \\ 5 & -5 & -2 & 0 \\ 1 & 3 & 1 & -1 \end{pmatrix} \quad D = \begin{pmatrix} -3 & -2 & 3 & -1 \\ 1 & -4 & -1 & -3 \\ -4 & -5 & 4 & 3 \\ -1 & 4 & 1 & -5 \end{pmatrix}$$

Compute the following determinants (none require extensive calculations):

a) $\det(A) =$

b) $\det(B) =$

c) $\det(C) =$

d) $\det(D) =$

e) $\det(BC^2B^{-1}) =$