

Chapter 4

Determinants

4.1 Determinants of Order 2

1. (a) No. We have $\det(2I_2) = 4$ but not $2\det(I_2)$.
- (b) Yes. Check that

$$\begin{aligned}\det \begin{pmatrix} a_1 + ka_2 & b_1 + kb_2 \\ c & d \end{pmatrix} &= (a_1d - b_1c) + k(a_2d - b_2c) \\ &= \det \begin{pmatrix} a_1 & b_1 \\ c & d \end{pmatrix} + k \det \begin{pmatrix} a_2 & b_2 \\ c & d \end{pmatrix}\end{aligned}$$

and

$$\begin{aligned}\det \begin{pmatrix} a & b \\ c_1 + kc_2 & d_1 + kd_2 \end{pmatrix} &= (ad_1 - bc_1) + k(ad_2 - bc_2) \\ &= \det \begin{pmatrix} a & b \\ c_1 & d_1 \end{pmatrix} + k \det \begin{pmatrix} a & b \\ c_2 & d_2 \end{pmatrix}\end{aligned}$$

for every scalar k .

- (c) No. A is invertible if and only if $\det(A) \neq 0$.
 - (d) No. The value of the area cannot be negative but the value $\det \begin{pmatrix} u \\ v \end{pmatrix}$ could be.
 - (e) Yes. See Exercise 4.1.12.
2. Use the formula in Definition in page 200.
 - (a) The determinant is $6 \times 4 - (-3) \times 2 = 30$.
 - (b) The determinant is -17 .
 - (c) The determinant is -8 .
 3. (a) The determinant is $-10 + 15i$.

Linear Algebra 4th Edition Friedberg Study Guide

Jianjun Gao



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