

## 行列式的性质

$$1. \det(AB) = \det(A) \det(B)$$

$$\begin{aligned} 2. \det(AB) &= \det(A) \det(B) \\ &= \det(B) \det(A) \\ &= \det(BA). \end{aligned}$$

$$3. \det(A) = \det(A^T)$$

- $\det(AB) = \det(BA),$
- $\det(A^T) = \det(A),$
- $\det(\alpha A) = \alpha^n \det(A),$
- $\det(\bar{A}) = \overline{\det(A)},$
- $\det(I) = 1.$

Trace 的性质