
1 The Determinant

Learning Outcomes

After completing this chapter, students should be able to do the following.

- Find determinants using cofactor expansion along a row or column.
- Interpret determinants as areas and volumes.
- Describe how row operations affect the determinant.
- Describe the significance when the determinant is zero.
- Analyze the determinant of a product algebraically and geometrically.
- Solve a system of equations using Cramer's rule.