

# Chapter 8

## EQUATIONS OF LINES AND PLANES

In this chapter, you will work with vector concepts you learned in the preceding chapters and use them to develop equations for lines and planes. We begin with lines in  $R^2$  and then move to  $R^3$ , where lines are once again considered along with planes. The determination of equations for lines and planes helps to provide the basis for an understanding of geometry in  $R^3$ . All of these concepts provide the foundation for the solution of systems of linear equations that result from intersections of lines and planes, which are considered in Chapter 9.

### CHAPTER EXPECTATIONS

In this chapter, you will

- determine the vector and parametric equations of a line in two-space, **Section 8.1**
- make connections between Cartesian, vector, and parametric equations of a line in two-space, **Section 8.2**
- determine the vector, parametric, and symmetric equations of a line in 3-space, **Section 8.3**
- determine the vector, parametric, and Cartesian equations of a plane, **Sections 8.4, 8.5**
- determine some geometric properties of a plane, **Section 8.5**
- determine the equation of a plane in Cartesian, vector, or parametric form, given another form, **Section 8.5**
- sketch a plane in 3-space, **Section 8.6**



# Mhr Calculus And Vectors 1solutions Chapter 8

**Marvin Bittinger, David  
Ellenbogen, Scott Surgent**



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