

Assignment 1 – Parts 1 & 2 – Math 243

Textbook exercises:¹

Section 11.1: 2, 4, 18 and 8, 14, 36, 44, 46, 50, 56

Other exercises:

- (1) In class, we saw that the x -axis is given by the two equations $y = 0$ and $z = 0$. We also saw that the equation for the plane parallel to the xy -plane at height 2 is $z = 2$. Describe in words the set of points satisfying the two equations $y = 0$ and $z = 2$.
- (2) Write down a collection of equations and inequalities describing the set of points on the plane $z = 2$ located in the first octant.
- (3) Describe what motivations you have for taking this class and what strategies you have for giving your best.

¹From Hass, Weir, and Thomas' *University calculus: alternate edition*