

## Assignment 1 – All 3 parts – Math 243

Due: Wednesday, Jan. 18, 2017, at the beginning of class

Textbook exercises:<sup>1</sup>

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

**Section 11.2:** 20, 22, 26, 32, 34, 44

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.

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<sup>1</sup>From Hass, Weir, and Thomas' *University calculus: alternate edition*