Assignment 1 – Part 1 – Math 243

<u>Textbook exercises:</u>[1]

Section 11.1: $2, 4, 18$

<u>Other exercises:</u>

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