Assignment 3

Coverage: 15.4 in Text.

Exercises: 15.4. no 13, 15, 17, 19, 22, 24, 25, 27, 29, 30, 34, 36, 41, 42, 43, 46. Submit no. 22, 24, 29, 36, 41 by Feb 7.

Supplementary Problems

- 1. Let D be the region bounded by $y = x^2$ and y = 2. Express D in polar coordinates. Hint: Decompose D into three regions.
- 2. Let D be the region described by $0 \le x \le 1, 0 \le y \le \sqrt{1-x^2} + 1$. Describe it in polar coordinates. Hint: Decompose D into two regions.