

## Phys 410 – Homework #6

Numbered problems are from Taylor.

- 1) Taylor 6.1 (3 pts)
- 2) Taylor 6.16 (3 pts)
- 3) Extra Credit: Consider a surface generated by revolving a curve around an axis. Let the curve start at  $(x_1, y_1)$  and finish at  $(x_2, y_2)$ . The curve revolves around the  $y$ -axis to create the 2D surface. Find the equation for the curve that generates the minimum surface area of revolution.