[Section 8.2] Area of a surface of revolution

- 25. If you confuse this integral, $\int_1^\infty \frac{\sqrt{x^4+1}}{x^3} dx$, try comparing with $\int_1^\infty \frac{1}{x} dx$ instead of evaluating.
- 29. The ellipsoid's surface area is twice the area generated by rotating the first-quadrant portion of the ellipse about the x-axis. That is, $S = 2 \int_0^a 2\pi y \sqrt{1 + [dy/dx]^2} \, dx$

36. $L = \int_{a}^{b} \sqrt{1 + [f'(x)]^2} \, dx$