## Definition 0.0.1: Rotationsarea kring x-axeln

Arean Asom genereras när kurvan  $y=f(x),\,a\leq x\leq b,$ roteras runt x-axeln ges av:

$$A = \int_{a}^{b} 2\pi f(x) \frac{1 + (f'(x))^{2}}{1 + (f'(x))^{2}} dx$$