

## Calculus 8.4 Key Points

### Arc Length:

If a function  $f(x)$  is differentiable on the interval from  $[a, b]$ , the the length of the curve of the function between  $x = a$  and  $x = b$  is equal to:

$$\int_a^b \sqrt{1 + (f'(x))^2} dx$$

