Solutions

Each answer shows the steps, then the **result**.

2.1

- there is a c in (a, b) where $f'

(c)

- $equals the average rate of change on [a, b]$

2.2

- f continuous on $[a, b]$ and differentiable on (a, b)

2.3

- $\frac{16 - 0}{4 - 0} = 4$

3.1 B

3.2 B

3.3

(a)

- $f(0) = 0$, $f(4) = 16$

(b)

- 4

(c)

- $2c = 4$, so $c = 2$