

Solutions

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

2.1

- $\frac{f(b) - f(a)}{b - a}$

2.2

- the average rates of change over intervals shrinking to zero

2.3

- $\frac{f(3) - f(1)}{3 - 1} = \frac{9 - 1}{2} = 4$

3.1 B

3.2 B

3.3

(a)

- $f(1) = 1, f(3) = 9$

(b)

- $\frac{9 - 1}{2} = 4$

(c)

- the instantaneous rate of change