

Solutions

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

2.1

- f'

(a)

- $\approx \frac{f(a+h) - f(a)}{h}$ for small h

2.2

- $\frac{5.4 - 5}{2.1 - 2} = \frac{0.4}{0.1} = 4$

2.3

- a smaller interval is closer to the tangent slope (the limit)

3.1 B

3.2 B

3.3

(a)

- 0.6

(b)

- 0.2

(c)

- $\frac{0.6}{0.2} = 3$