

Solutions

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

2.1

- $f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$

2.2

- any two of $f'(x)$, $\frac{dy}{dx}$, $\frac{d}{dx}[f(x)]$

2.3

- the slope of the tangent line to the graph of f at x

3.1 B

3.2 B

3.3

(a)

- tangent

(b)

- the derivative (instantaneous rate of change)

(c)

- the rate of change of y with respect to x