

Solutions

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

2.1

- $L(x) = f(a) + f'$

(a)

- $(x - a)f'$

2.2

- $f(4) = 2; f'(4) = \frac{1}{4}$

2.3

- the value of $f(x)$ for x near a

3.1 B

3.2 B

3.3

(a)

- $L(x) = 9 + 6(x - 3)$

(b)

- $9 + 6(0.1)$

(c)

- 9.6