

Solutions

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

2.1

- if f'

(c)

- $= 0$ and f''

(c)

- > 0 , then c is a local minimum

2.2

- $f'' = 2 > 0$, so it is a local minimum

2.3

- when f''

(c)

- $= 0$

3.1 B

3.2 B

3.3

(a)

- -2

(b)

- $-2 > 0$

(c)

- local minimum