

Solutions

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

2.1

- its concavity (concave up where $f'' > 0$, down where $f'' < 0$)

2.2

- $f' = 0$ and $f'' > 0$

2.3

- $f' = 0$ at $x = 0$; $f'' = 0$ at $x = 0$

3.1 B

3.2 A

3.3

(a)

- $3x^2$

(b)

- $x = 0$

(c)

- $x = 0$