

Solutions

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

2.1

- degree 4; leading coefficient 3

2.2

- an output value greater than those at nearby inputs (where the function switches from increasing to decreasing)

2.3

- a local maximum is greatest among nearby points; the global maximum is the greatest of all local maxima

3.1 B

3.2 B

3.3

(a)

- 5

(b)

- $2x^5$

(c)

- 2