

Solutions

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

2.1

- its leading term (degree and leading coefficient)

2.2

- as $x \rightarrow \infty$, $p(x) \rightarrow \infty$; as $x \rightarrow -\infty$, $p(x) \rightarrow -\infty$

2.3

- $\lim_{x \rightarrow \infty} p(x) = \infty$

3.1 B

3.2 B

- an even degree with a negative leading coefficient sends both ends to $-\infty$

3.3

(a)

- ∞

(b)

- $-\infty$

(c)

- no (opposite directions)