

Practice #1

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Write each polynomial in standard form. Then classify it by degree and by number of terms.

Draw a <u>sketch</u> of the graph and describe the <u>end behavior</u> of each polynomial function.

1.
$$f(x) = x^3 + 10x^2 + 32x + 34$$

 $(x) \Rightarrow -\infty f(x) \Rightarrow -\infty$
 $(x) \Rightarrow +\infty f(x) \Rightarrow +\infty$

2.
$$f(x) = -x^2 - 8x - 15$$

 $(x) \Rightarrow -\infty$ $f(x) \Rightarrow -\infty$
 $(x) \Rightarrow +\infty$ $f(x) \Rightarrow +\infty$

3.
$$f(x) = -x^4 + x^2 + 2$$

$$\begin{array}{ccc}
\chi & \gamma & -\infty & f(x) & \gamma & -\infty \\
\chi & \gamma & +\infty & f(x) & \gamma
\end{array}$$





