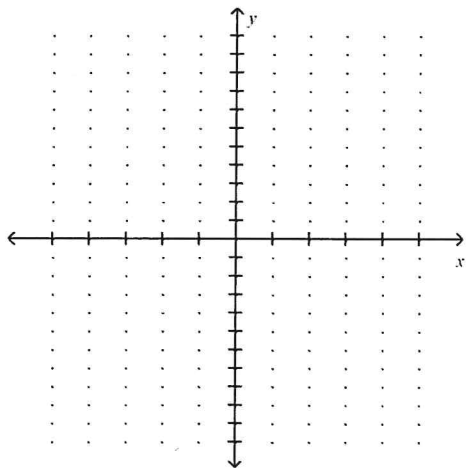


Algebra 2 CP Worksheet 6.2 Graphing Polynomials With a Table of Values

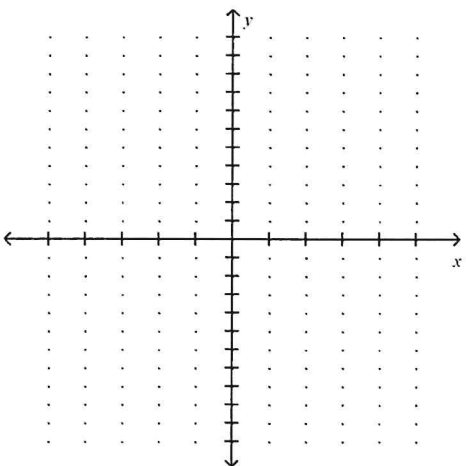
Make a table of values (using $x = -3, -2, -1, 0, 1, 2, 3$). Plot the corresponding points.

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



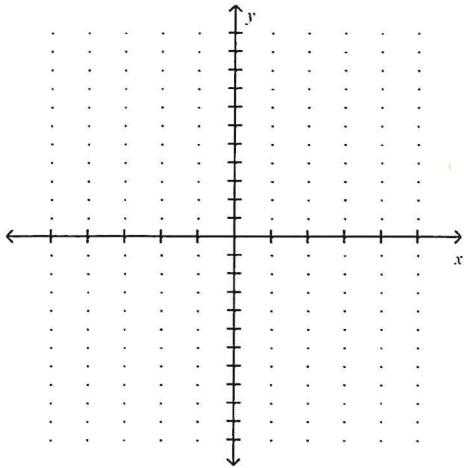
- What is the shape of the graph?
- How many U-turns are there?
- Is the degree even or odd?
- Is the leading coefficient positive or negative?
- Describe the end behavior.

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



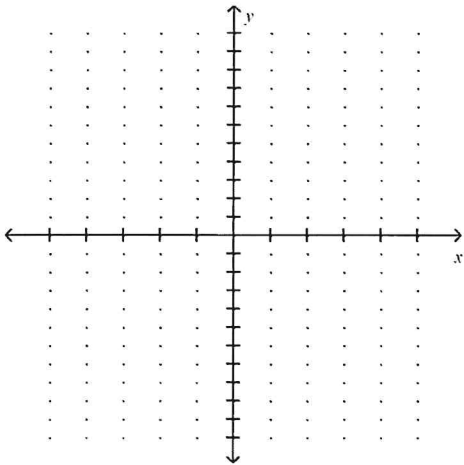
- What is the shape of the graph?
- How many U-turns are there?
- Is the degree even or odd?
- Is the leading coefficient positive or negative?
- Describe the end behavior.

3. $f(x) = 2x^3 - 4x^2 + 1$



- What is the shape of the graph?
- How many U-turns are there?
- Is the degree even or odd?
- Is the leading coefficient positive or negative?
- Describe the end behavior.

4. $f(x) = -x^4 + 5x^2 - 6$



- What is the shape of the graph?
- How many U-turns are there?
- Is the degree even or odd?
- Is the leading coefficient positive or negative?
- Describe the end behavior.