

Polynomial Basics

Name: _____

Re-write the following polynomials in standard form.

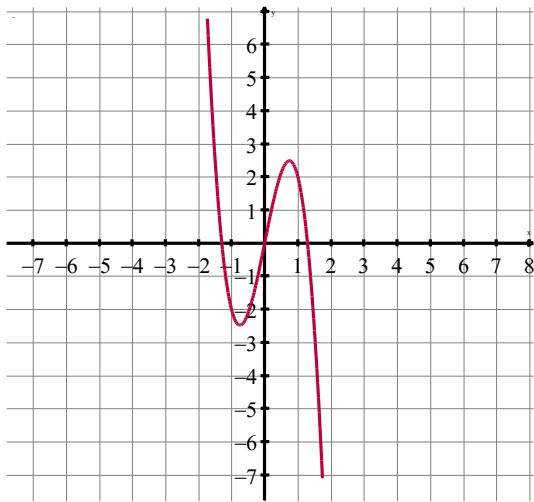
$$M(x) = 2x^3 + x^4 - 3$$

$$N(x) = \frac{1}{2}x^3 - 2x^2 + 1.75x^4 + \frac{1}{2}x^5 - 3$$

$$P(x) = 1 - x^3 - \frac{3}{4}x^4 + 2x^2$$

$$Q(x) = 5x - 3x^3$$

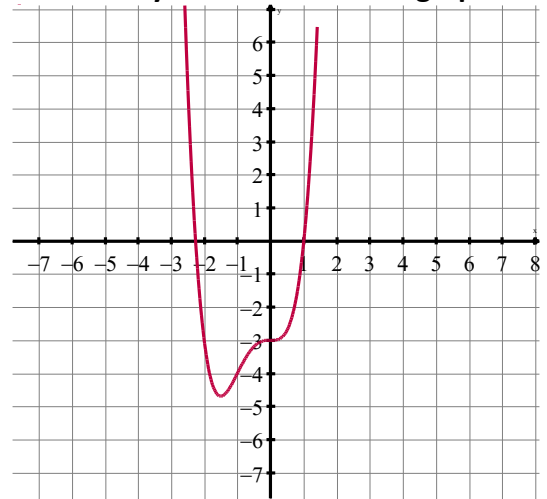
Match each polynomial from above with its graph. Classify and identify attributes of each graph.



Polynomial: _____

Classify: _____

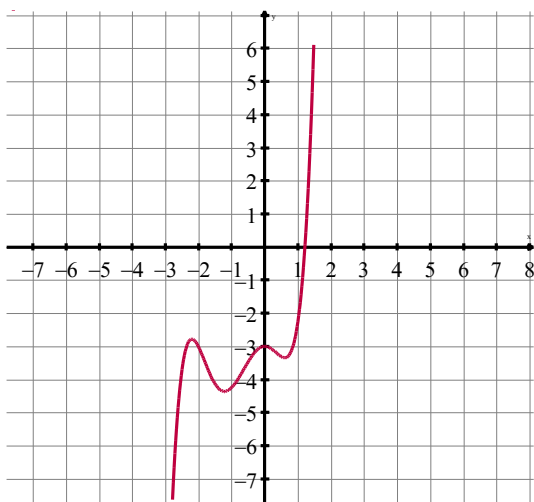
Leading coefficient: _____



Polynomial: _____

Classify: _____

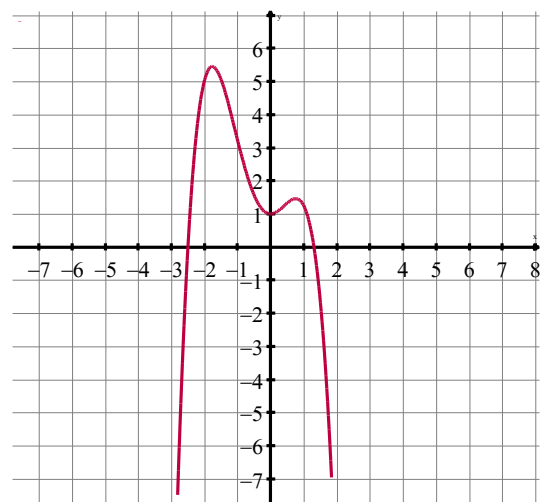
Leading coefficient: _____



Polynomial: _____

Classify: _____

Leading coefficient: _____



Polynomial: _____

Classify: _____

Leading coefficient: _____