

# Polynomial Functions

Each function below is called a polynomial function. Sketch the graph of each. There is the graph provided to the right, explain the similarities and differences among members of the family.

1a) Quadratic (degree 2) functions

1a)  $f(x) = x^2$



1b)  $f(x) = x^2 - 2x + 1$



1c)  $f(x) = -x^2 + 2x$



Similarities/Differences:

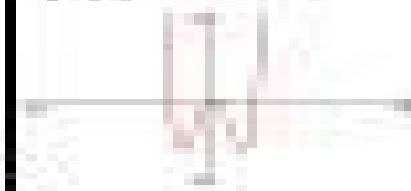
These graphs are all parabolas. They all have a vertex at (1,0) or (1,1) and they all have a y-intercept at (0,0) or (0,1).

2a) Fourth degree (quartic) functions

2a)  $f(x) = x^4$



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



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



Similarities/Differences:

These graphs are all quartic curves. They all have a local minimum at (1,0) or a local maximum at (1,0) and they all have a y-intercept at (0,0) or (0,1).

3a) Fifth degree (quintic) functions

3a)  $f(x) = x^5$



3b)  $f(x) = x^5 - 2x^3 + 1$



3c)  $f(x) = x^5 - 2x^3 + 1$



Similarities/Differences:

These graphs are all quintic curves. They all have a local minimum at (1,0) or a local maximum at (1,0) and they all have a y-intercept at (0,0) or (0,1).

4a) Sixth degree (sextic) functions

4a)  $f(x) = x^6$



4b)  $f(x) = x^6 - 2x^4 + 1$



4c)  $f(x) = x^6 - 2x^4 + 1$



Similarities/Differences:

These graphs are all sextic curves. They all have a local minimum at (1,0) or a local maximum at (1,0) and they all have a y-intercept at (0,0) or (0,1).

# Name That Function Precalculus Hs Mathematics

**K Payea**



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