

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.

1) Linear (degree 1) functions

A) $f(x) = x^1$



B) $f(x) = x^1 - 3x^0$



C) $f(x) = -3x^1 + 3x^0$

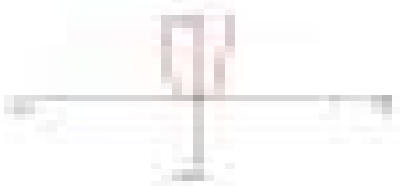


Similarities/Differences:

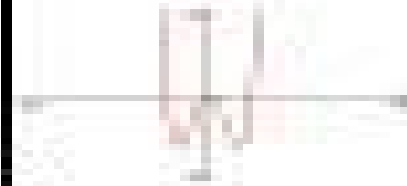
Linear functions always have the same shape. They are straight lines. The only difference is the slope and the y-intercept.

2) Quadratic (degree 2) functions

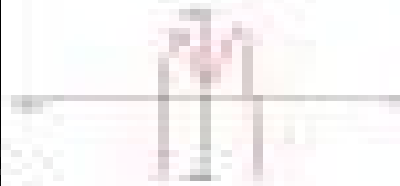
A) $f(x) = x^2$



B) $f(x) = x^2 - 3x^1$



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



Similarities/Differences:

Quadratic functions always have the same shape. They are parabolas. The only difference is the direction of opening, the vertex, and the y-intercept.

3) Cubic (degree 3) functions

A) $f(x) = x^3$



B) $f(x) = x^3 + 3x^2$



C) $f(x) = x^3 - 3x^2 + 3x$



Similarities/Differences:

Cubic functions always have the same shape. They are S-shaped curves. The only difference is the direction of opening, the inflection point, and the y-intercept.

4) Quartic (degree 4) functions

A) $f(x) = x^4$



B) $f(x) = x^4 - 3x^3$



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



Similarities/Differences:

Quartic functions always have the same shape. They are W-shaped curves. The only difference is the direction of opening, the inflection points, and the y-intercept.

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Lei Huang



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