



## Algebra's Most Wanted: Polynomial Functions

A wanted poster is a poster distributed to let the public know of an alleged criminal whom authorities wish to apprehend. They will generally include either a picture of the alleged criminal when a photograph is available, or of a facial composite image produced by a police. The poster will usually include a description of the wanted person and the crime for which they are sought. Wanted posters are usually produced by a police department or other public government body for display in a public place, such as on a physical bulletin board or in the lobby of a post office, but in ages past wanted posters have also been produced by vigilante groups, railway security, private agencies such as Pinkerton, or by express companies that have sustained a robbery. Wanted posters for particularly notorious fugitives frequently offer a bounty for the capture of the person, or for a person who can provide information leading to such capture.

You will be given the name (equation) of a wanted polynomial function in a personal message. It is your job to create a wanted poster for it. In addition to its name, you must provide a sketch (graph) of the polynomial along with a FULL description of the culprit. Use your creativity to tell WHY the polynomial is wanted and to determine the reward for capture. Use one of the screencast presentation apps ScreenChomp, Educreations, ExplainEverything (not free), ShowMe, Doceri, Teach by Knowmania (or any other you are familiar with) to document your work as you try to determine distinguishing characteristics for your polynomial. Create a wanted poster either on a poster or electronically using any software or app of your choice. (There is a FREE app called Wanted Poster Maker that you might want to try.)

See attached scoring rubric for specific details.

CATEGORY	4	3	2	1
Polynomial Description	All information was stated, accurate, and descriptive in the explanation.	90-99% of information was stated, accurate, and descriptive in the explanation.	75-89% of information was stated and accurate.	Less than 75% of the information was stated and accurate.
Video Representative Included (direction = degree = # roots, type, number and location of roots roots, location of extrema, end behavior including even / odd degree )	All 4 attributes were discussed on the video.	3 attributes were discussed on the video.	2 attributes were discussed on the video.	1 attribute was discussed on the video.
Attractive/Creative Wanted Poster	Very attractive and creative	Attractive and somewhat creative	Attractive but not creative	Not attractive or creative
Organization/Neatness	The product explanation was organized, well thought out, and the entire product was organized. The writing was legible and the graph was easily readable.	The product explanation was somewhat organized, transitions acceptable, and the entire product was slightly organized. The writing was fairly legible and the graph was readable.	The product explanation was very brief, disorganized, and the writing and/or graph were difficult to interpret.	The product explanation was not organized, or well thought out. The writing was not legible and the graph was not easily readable.