**Group Polynomial Project**

Enter group members here.

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|  |

Create a name for your group. It must contain at least 5 characters and can only be 1 word. Enter your group name below.

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Create a polynomial of your group name at [this](https://globalmathproject.org/personal-polynomial/) site

Download your polynomial & insert image here

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|  |

Graph your polynomial in Desmos & paste the link here

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Complete the table below to describe the key features of your group polynomial

|  |  |
| --- | --- |
| Leading coefficient |  |
| Degree |  |
| End behavior |  |
| Roots |  |
| Multiplicity |  |
| Y-intercept |  |
| Relative maximum(s) |  |
| Relative minimum(s) |  |
| Inflection point(s)(estimate) |  |
| Turning point(s) |  |
| Odd/even/neither |  |
| Intervals of increase |  |
| Intervals of decrease |  |

Once you have your polynomial and characteristics, graph it on a sheet of poster paper (first in pencil, then in black marker). [Note: Do NOT draw your axes in black marker.] Then code specific points for the ozobot, as noted below.

|  |  |
| --- | --- |
| Relative maximum(s) | Pause |
| Relative minimum(s) | Spin |
| Roots | Tornado |

You may choose to code other aspects to increase the appeal.