MHF4U Name: _____

Assignment - Who Doesn't Belong?

You are to create 4 options where each option *could* be classified as the "one that doesn't belong" to the group using a key feature of the function.

Each option must include:

- A graph with detailed labelling (any key points and/or asymptotes)
- An equation that matches the graph provided
- 3 features that can be common with others
- 1 feature that is UNIQUE to this option only.

Below are some features to be considered. You may consider to compare the number of or the exact location of the following features. *(For example: 2 x-intercepts or an x-intercept at x = 3)*

- x-intercept(s)
- y-intercept
- vertical asymptote(s)
- horizontal or oblique asymptote
- domain
- range

Stuck? Need some inspiration? Check out: https://wodb.ca/graphs.html

Polynomial		Rational	
Equation:		Equation:	
Common Features:		Common Features:	
Unique Feature:		Unique Feature:	
Trigonometric		**Exponential/Logarithmic**	
Equation:		Equation:	
Common Features:		Common Features:	
Unique Feature:		Unique Feature:	