Graphing Techniques: Transformations -- Characteristics Worksheet

HORIZONTAL TRANSFORMATIONS	Horizontal Shift		Vertical Shift		VERTICAL TRANSFORMATIONS
	How does the graph change?	It shifts _____ or _____	How does the graph change?	It shifts _____ or _____	
	How does the eq'n change?	Replace all x with _____ where ___ tells the direction of shift	How does the eq'n change?	Add __ to the equation	
	Which coord's change? How?	Add ___ to all the ___-coordinates	Which coord's change? How?	Add ___ to all the ___-coordinates	
	Horizontal Compression		Vertical Compression		
	How does the graph change?	It compresses towards the ___-axis	How does the graph change?	It compresses towards the ___-axis	
	How does the eq'n change?	Replace all x with ____ where ___ > 1	How does the eq'n change?	Multiply the equation by ___, with 0 <___ <___	
	Which coord's change? How?	Multiply all of the ___-coordinates by _____	Which coord's change? How?	Multiply all of the ___-coordinates by ___	
	Horizontal Stretch		Vertical Stretch		
	How does the graph change?	It stretches away from the ___-axis	How does the graph change?	It stretches away from the ___-axis	
	How does the eq'n change?	Replace all x with ____ where 0 <___ <___	How does the eq'n change?	Multiply the equation by ___, with ___ > 1	
	Which coord's change? How?	Multiply all of the ___-coordinates by _____	Which coord's change? How?	Multiply all of the ___-coordinates by ___	
	Horizontal (y-axis) Reflection		Vertical (x-axis) Reflection		
	How does the graph change?	Spin it around the ___-axis	How does the graph change?	Spin it around the ___-axis	
	How does the eq'n change?	Replace all x with _____	How does the eq'n change?	Multiply the equation by ___	
	Which coord's change? How?	Multiply all of the ___-coordinates by ___	Which coord's change? How?	Multiply all of the ___-coordinates by ___	