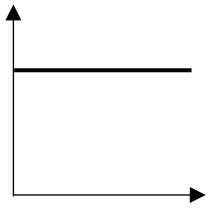
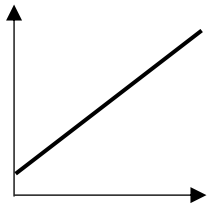
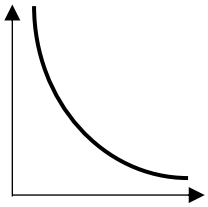
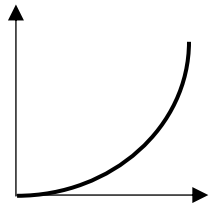
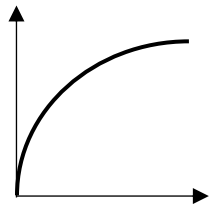
Graph Shape	Written Relationship	Modification required to linearize the graph	Algebraic Representation
	As x increases, y remains the same. There is no relationship between the variables.	None	$y = b$ Or, y is constant
	As x increases, y increases proportionally. Y is directly proportional to x.	None	$y = mx + b$
	As x increases, y decreases. Y is inversely proportional to x.	Graph y vs $\frac{1}{x}$	$y = m\frac{1}{x}$
	Y is proportional to the square of x.	Graph y vs x^2	$y = mx^2$
	The square of y is proportional to x.	Graph y^2 vs x	$y = m\sqrt{x}$