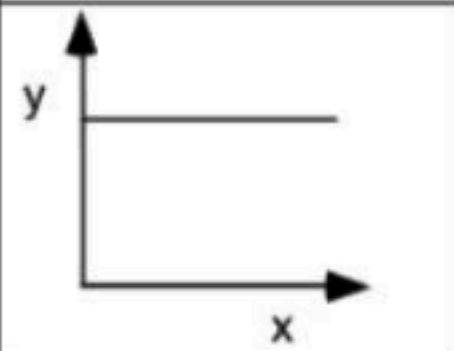
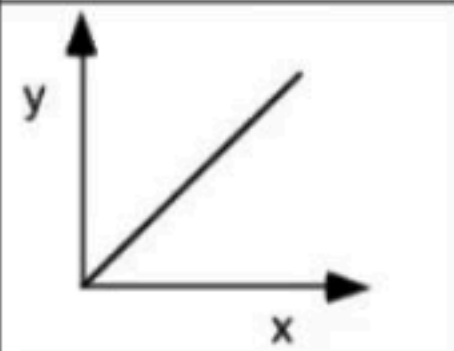
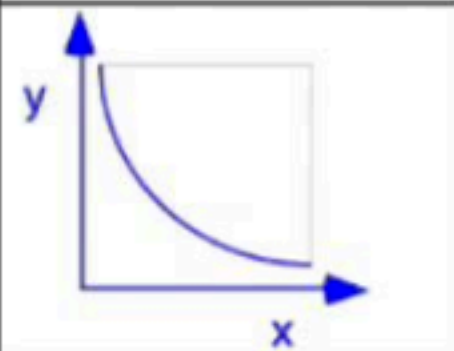
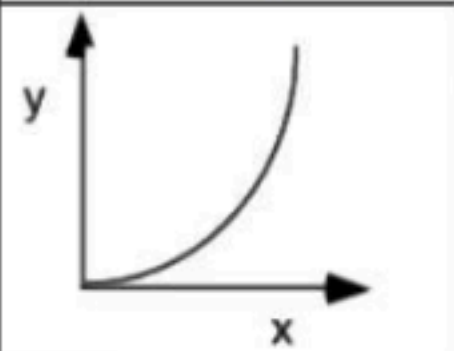
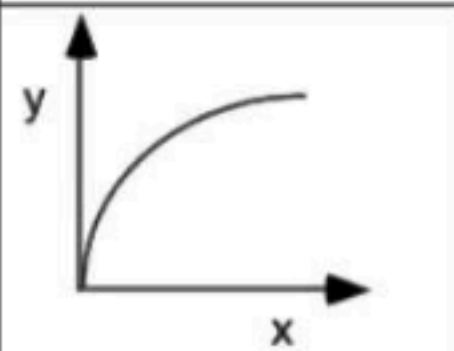


Graph shape	Written relationship	Modification required to linearize graph	Algebraic representation
	As x increases, y remains the same. There is no relationship between the variables. No Relationship	None	$y = b$, or y is constant
	As x increases, y increases proportionally. Y is directly proportional to x. Proportional	None	$y = mx + b$
	As x increases, y decreases. Y is inversely proportional to x. Inversely Proportional	Graph y vs $\frac{1}{x}$, or y vs x^{-1}	$y = m\left(\frac{1}{x}\right) + b$
	Y is proportional to the square of x. Square Relation	Graph y vs x^2	$y = mx^2 + b$
	The square of y is proportional to x. Square Root Relation	Graph y^2 vs x	$y^2 = mx + b$