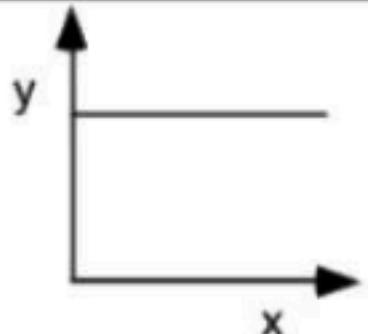
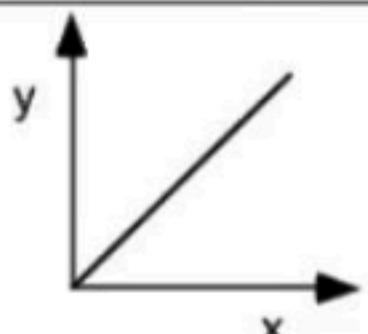
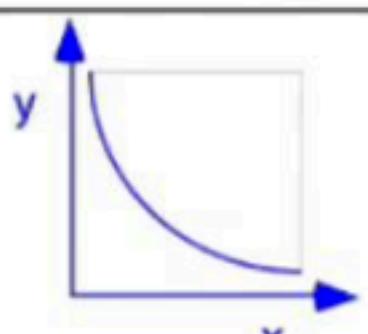
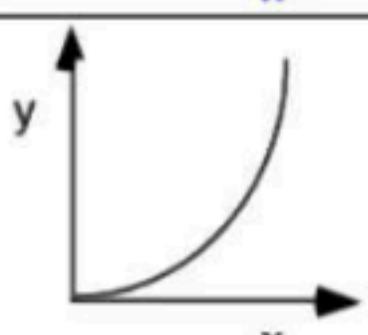
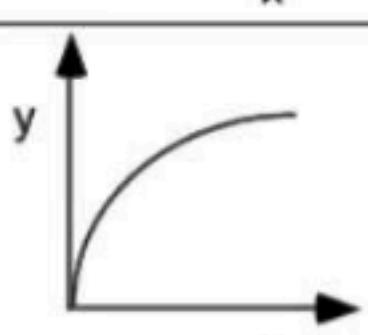


Graph shape	Written relationship	Modification required to linearize graph	Algebraic representation
	As x increases, y remains the same. There is no relationship between the variables.  <b>No Relationship</b>	None	$y = b$ , or y is constant
	As x increases, y increases proportionally. Y is directly proportional to x.  <b>Proportional</b>	None	$y = mx + b$
	As x increases, y decreases. Y is inversely proportional to x.  <b>Inversely Proportional</b>	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.  <b>Square Relation</b>	Graph $y$ vs $x^2$	$y = mx^2 + b$
	The square of y is proportional to x.  <b>Square Root Relation</b>	Graph $y^2$ vs $x$	$y^2 = mx + b$