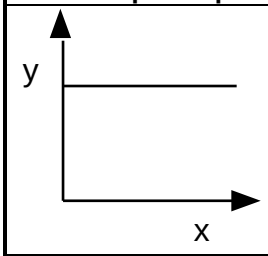
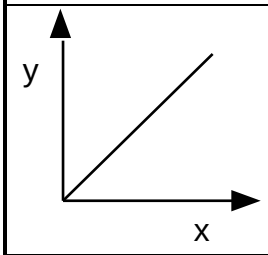
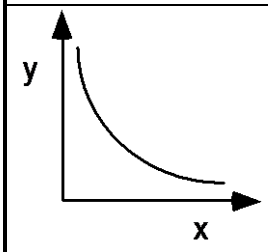
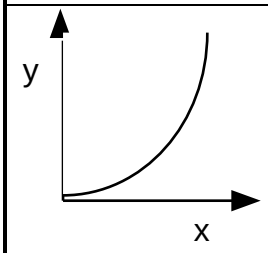
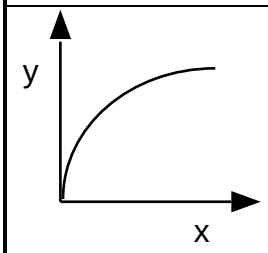
Graphical Methods-Summary

Graph shape	Written relationship	How to fit the curve using LoggerPro	Algebraic representation
	As X increases, Y remains the same. There is no relationship between the variables.	Linear Fit	$y = b$, or y is constant
	Y is proportional to X. Y is directly proportional to X.	Linear Fit	$y = mx + b$
	Y is proportional to 1/X. Y is inversely proportional to X.	A*x^n (variable power) where the power is a negative integer (usually -1)	$y = A/x$
	Y is proportional to X squared.	A*x^n (variable power) where the power is a positive integer (usually 2)	$y = Ax^2$
	Y is proportional to the square root of X.	A*x^n (variable power) where the power is a positive fraction (usually 1/2*) Don't type the fraction into the computer, use its decimal form. (e.g. for 1/2 use 0.5)	$y = A\sqrt{x}$