Topic 5: Functions/Graphs

1) The Basics:

a) Terminology:	c) Evaluating Functions:
• Domain = the values that are put into a function.	Example: If $f(x) = 2x^2 + 3$, find $f(3)$ and $f(-1)$.
 Range = the values that come out of a function. 	$f(3) = 2(3)^2 + 3 = 21$
• Codomain = the values that could come out of a function.	$f(-1) = 2(-1)^2 + 3 = 5$
b) Notation:	d) Finding Inputs of Functions:
The different ways functions are written are:	Example: If $f(x) = 5x - 3$, find the value of x for which $f(x) = 12$.
• $f(x) = x^2 + 3x$	f(x) = 12
• $f:x \rightarrow x^2 + 3x$	=> 5x - 3 = 12
• $y = x^2 + 3x$	=> 5x = 15
	=> x = 3

2) Types of Graphs:



3) Drawing/Interpreting Graphs:

