Non-Linear Functions Terminology

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1.	**asymptote**	a line to which a curve gets very close but never actually touches
2.	**constant of variation**	the constant of variation is the number that relates two variables that are directly proportional or inversely proportional to one another; it is the k in a variation formula
3.	**cubic function**	a function in the form of y = x^3 + c
4.	**decreasing**	the section of a curve for which the gradient of the tangent to the curve is negative
5.	**exponential function**	a function in the form of y = 2^x + c for example
6.	**exponential growth**	growth whose rate becomes ever more rapid in proportion to the growing total number or size
7.	**hyperbola**	the graph of a hyperbolic function
8.	**hyperbolic function**	a function in the form of y = a/x
9.	**increasing**	the section of a curve for which the gradient of the tangent to the curve is positive
10.	**initial value**	the value at the beginning (when t = 0)
11.	**maximum**	the highest value reached
12.	**minimum**	the lowest value reached
13.	**model**	using mathematics to describe a real-life pattern or relationship
14.	**non-linear function**	a function that is not in the linear form
15.	**parabola**	the U-shaped graph of a quadratic function
16.	**proportional to**	a relationship between variables in which a change in one variable results in a direct change in the other variable
17.	**quadratic function**	a function in the form of y = x^2 +bx + c
18.	**vertex**	the turning point of a parabola
19.	**vertical intercept**	the value at which a straight line graph cuts the vertical axis