

F.IF.9

Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum. (A2, M3)

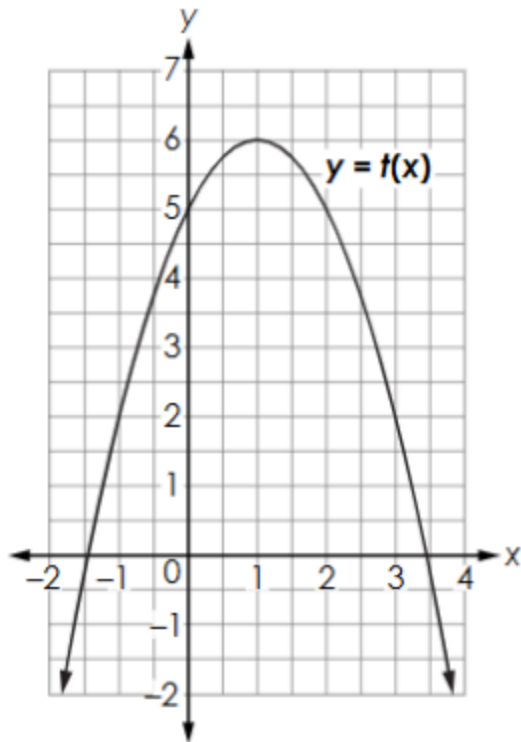
a. Focus on linear and exponential functions. (M1)

b. Focus on linear, quadratic, and exponential functions. (A1, M2)

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Two functions are shown, where the parabola  $y = t(x)$  is represented by the graph, and some points of the parabola  $y = z(x)$  are represented by a table.



x	0	1	3	5	6
z(x)	1	6	10	6	1

Complete the statements to correctly compare the properties of the two functions.

The  $y$ -intercept of  $t$  is  the  $y$ -intercept of  $z$ .



less than

greater than

equal to

The maximum of  $t$  is  the maximum of  $z$ .



less than

greater than

equal to

The value of  $t(1)$  is  the value of  $z(1)$ .



less than

greater than

equal to