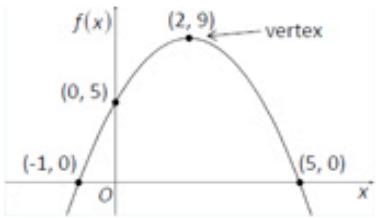
High School – Functions

A portion of the graph of a quardratic function $f(x)$ is shown in the xy - plane. Selected values of a linear function $g(x)$ are shown in the table.



x	g(x)
-4	7
-1	1
2	-5
5	-11

For each comparison below, use the drop-down menu to select a symbol that correctly indicates the realtionship betweeen the first and the second quantity.

First Quantity	Comparison	Second Quantity
The y-coordinate of the y-intercept $f(x)$		The y-coordinate of the y-intercept $g(x)$
$f(3)$		$g(3)$
Maximum value of $f(x)$ on the interval $-5 \le x \le 5$		Maximum value of $g(x)$ on the interval $-5 \le x \le 5$
$\frac{f(5) - f(2)}{5 - 2}$		$\frac{g(5) - g(2)}{5 - 2}$