

### Practice:

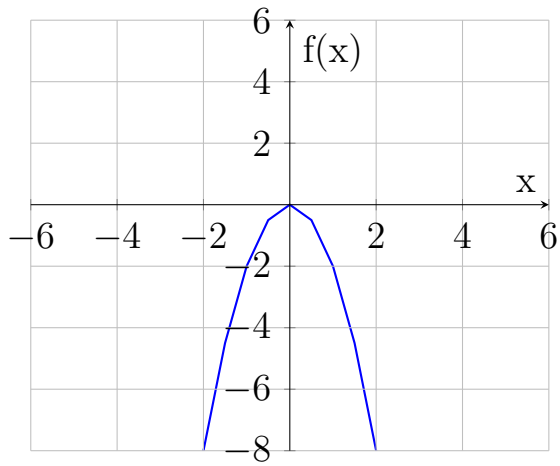
For each of the following quadratic functions, find the domain/range, axis of symmetry, vertex, y-intercept.

1.  $f(x) = -2(x + 5)^2 - 6$

2.  $g(x) = x^2 + 11x - 12$

3. 

$x$	-3	-2	-1	0	1	2
$g(x)$	-19	-16	-15	-16	-19	-24



4.

### Verbal Representation:

The height of a football (in meters) can be found using the quadratic function  $h(t)$  where  $t$  is number of seconds after the football is kicked. A football is kicked from ground level, reaches a maximum height of 18 feet 2.1 seconds after it is kicked and hits the ground after 4.2 seconds.