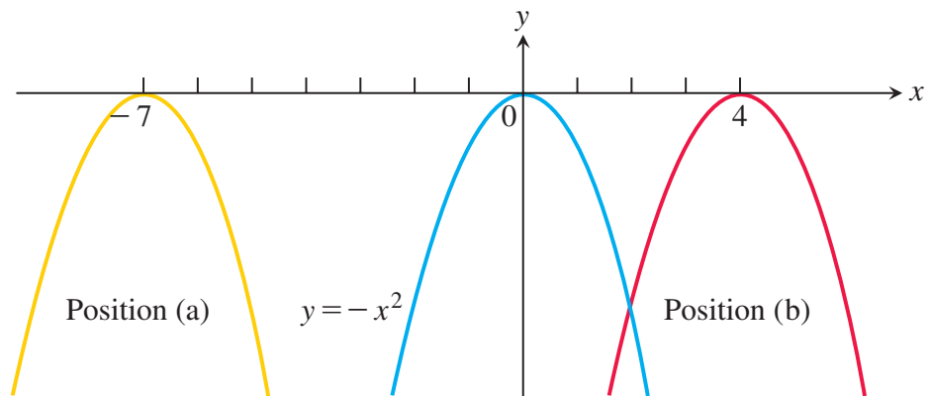## Exercise 23

The accompanying figure shows the graph of $y = -x^2$ shifted to two new positions. Write equations for the new graphs.

Solution

Replacing x with $x - 4$ shifts the graph to the right by 4 units, and replacing x with $x + 7$ shifts the graph to the left by 7 units.