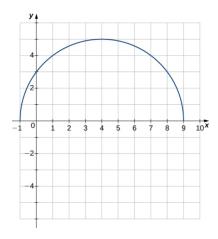
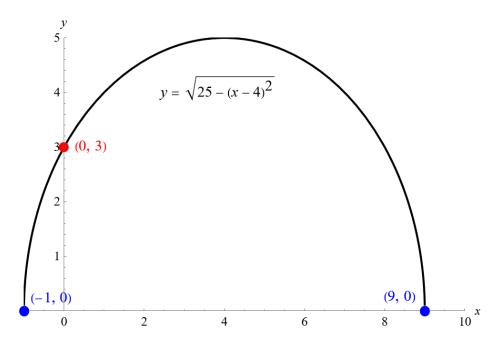
## Exercise 58

Use a graphing calculator to graph the half-circle  $y = \sqrt{25 - (x - 4)^2}$ . Then, use the INTERCEPT feature to find the value of both the x- and y-intercepts.



## Solution

The graph of  $y = \sqrt{25 - (x - 4)^2}$  versus x is shown below.



y-intercepts are the points where the curve touches the y-axis (marked in red). Similarly, x-intercepts are the points where the curve touches the x-axis (marked in blue).