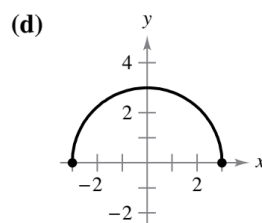
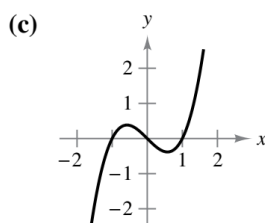
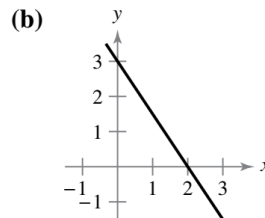
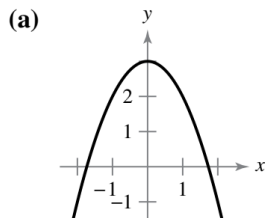


## Exercise 4

In Exercises 3–6, match the equation with its graph. [The graphs are labeled (a), (b), (c), and (d).]



$$y = \sqrt{9 - x^2}$$

### Solution

Square both sides.

$$y^2 = 9 - x^2$$

Bring  $x^2$  to the left side.

$$x^2 + y^2 = 9$$

This is the graph of a circle centered at the origin with radius 3.

