X^2+(y−2)^4= 4

(y−2)^4= 4−x2

y−2= ±(4−x2)^1/4

y= 2±(4−x2)^1/4

y= 2+(4−x2)^1/4 (Since, we want the top half of the circle, we take the positive root)

The expression for the function that represents the top half of the circle is:

y= 2+(4−x2)^1/4