2.5)
$$y = |f(x)|$$
 and $y = f(|x|)$

Sketch:

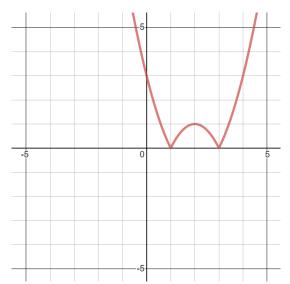
$$y = |f(x)|$$

, , ,

$$f(x) = x^2 - 4x + 3$$

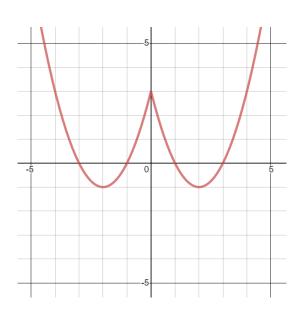
Sketch:

•
$$y = |f(x)|$$



•
$$y = f(|x|)$$

•
$$y = f(|x|)$$

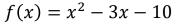


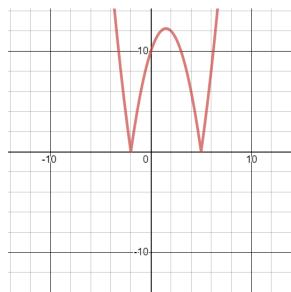
Sketch:

$$y = |f(x)|$$

Sketch:

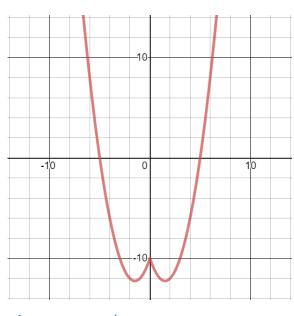
$$y = |f(x)|$$





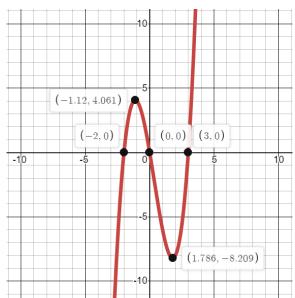
•
$$y = f(|x|)$$

•
$$y = f(|x|)$$



Worked example

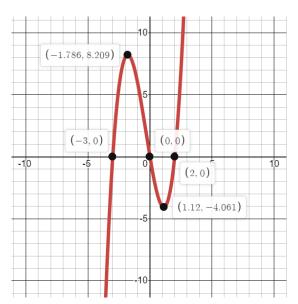
A sketch of y = f(x) is shown.



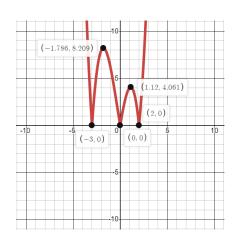
Sketch y = |f(x)| and y = f(|x|) on separate axes.

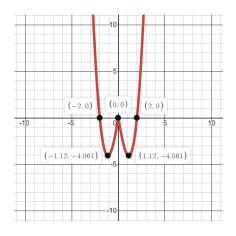
Your turn

A sketch of y = f(x) is shown.



Sketch y = |f(x)| and y = f(|x|) on separate axes.





$$y = \cos x \,, \qquad -2\pi \le x \le 2\pi$$

Sketch:

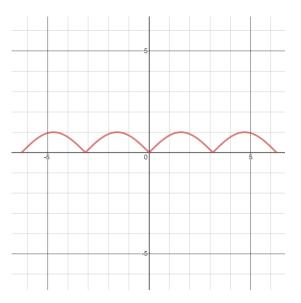
$$y = |\cos x|$$

• $y = \cos |x|$

 $y = \sin x \,, \qquad -2\pi \le x \le 2\pi$

Sketch:

•
$$y = |\sin x|$$



• $y = \sin |x|$

