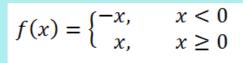
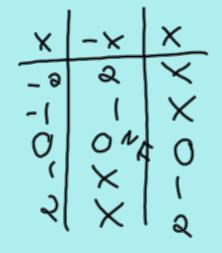
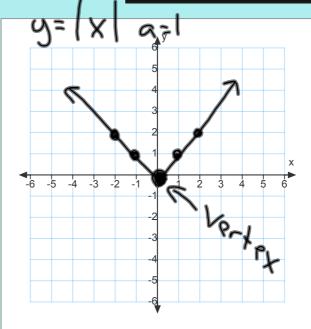
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Graph this piecewise function... It's magical!









What type of function are we graphing?

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Absolute Value Function!

Parent function: y = |x|

Domain:

Range:

$$[0, \infty)$$



End Behavior:

As
$$x \rightarrow +\infty$$
, $f(x) \rightarrow +\infty$
As $x \rightarrow +\infty$, $f(x) \rightarrow +\infty$

Standard form of an absolute value function:

$$y = a|x-h|+k$$
Vertex: (h,k)
$$Q = 5|CPC$$

Time to Try Some

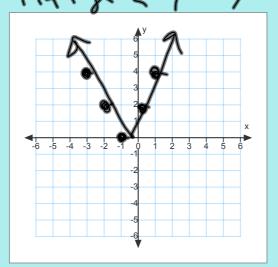
Identify the vertex, domain, range and describe the transformations of y = |x|. Then, graph the function.

a)
$$y = 2|x+1|$$
 $y = a|x-h|+k$ b) $y = -|x-3|+2$

Vertex: (-1,0)

Vertex: (3,2)

a = 2 Domain: (-00,00) Range [0,00)



Range: (-0,2)

