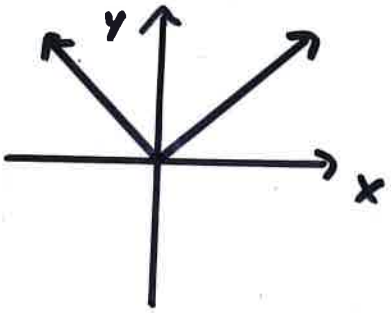
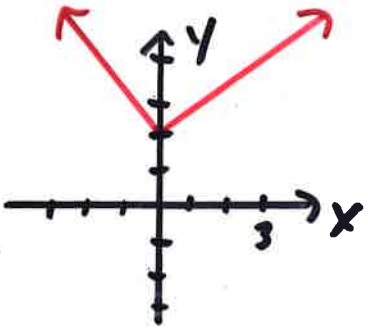
2.7 Absolute Value Graphs

Consider $y = |x|$



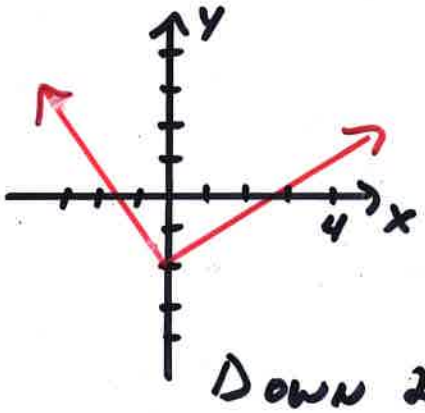
Parent Graph

$y = |x| + 2$



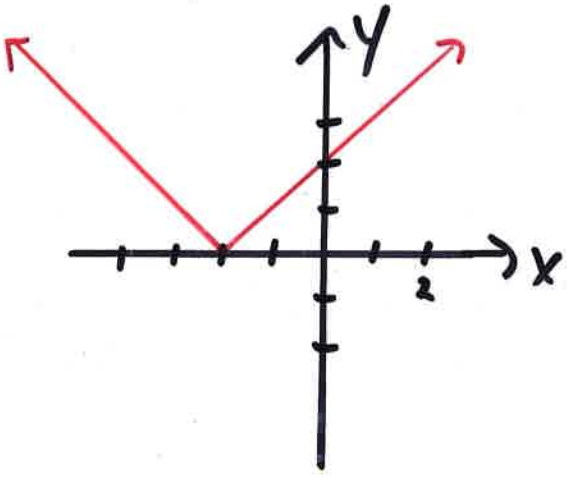
Up 2 units

$y = |x| - 2$



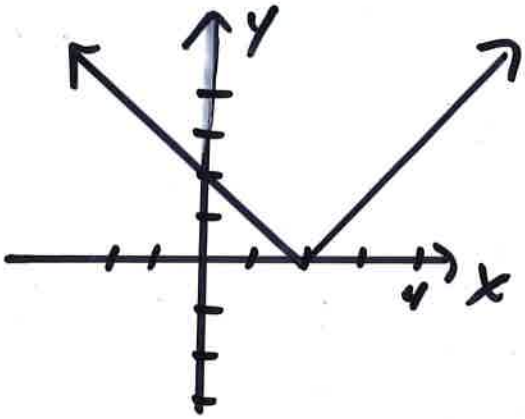
Down 2

$y = |x + 2|$



Left 2

$y = |x - 2|$

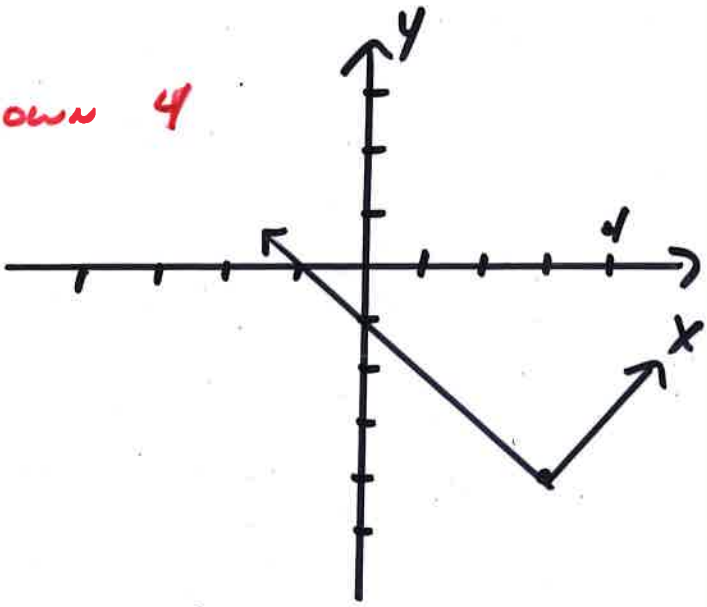


Right 2

Ex: $y = |x-3| - 4$

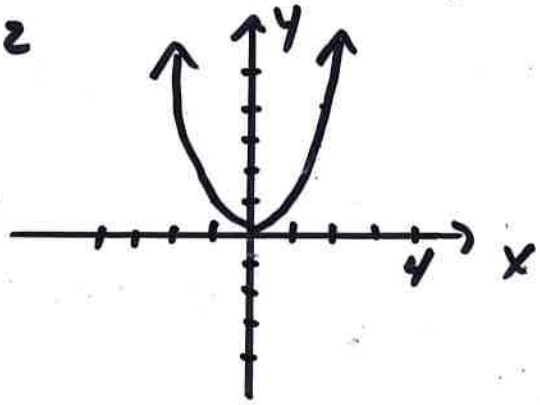
RIGHT 3

DOWN 4



CONSIDER $y = x^2$

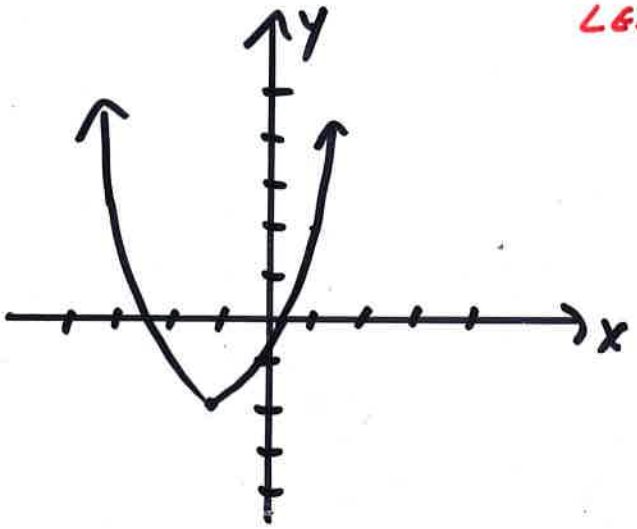
PARENT GRAPH



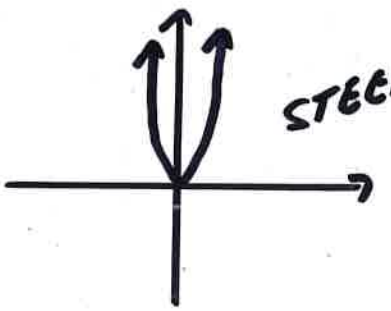
Ex: GRAPH $y = (x+1)^2 - 2$

LEFT 1

DOWN 2



NOTE: $y = 2x^2$



HW: 1-14, 17-22, 29-34