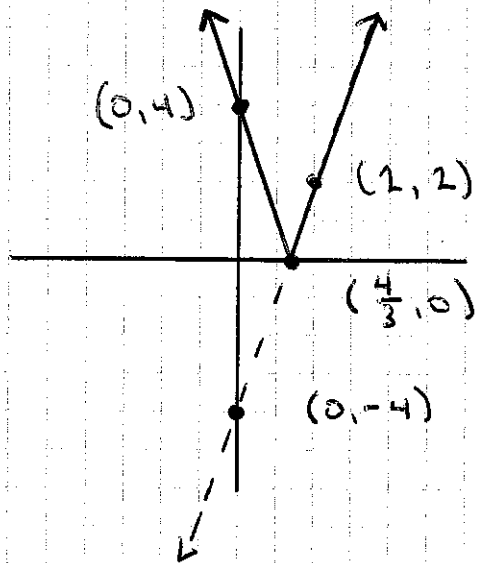


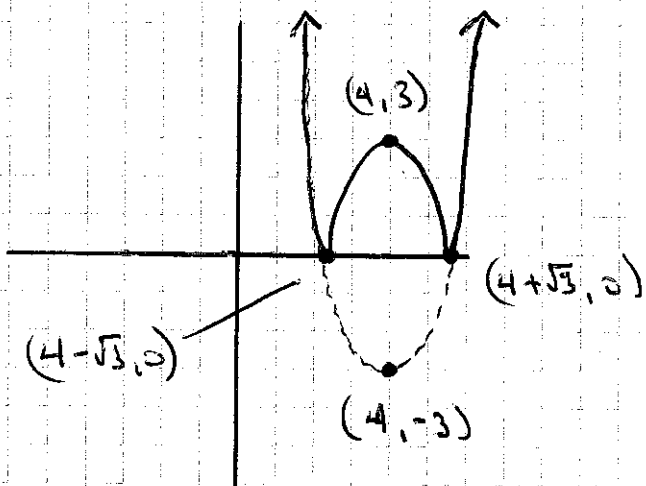
# Supplemental Worksheet 13

$y = f(x)$  dotted line  
 $y = |f(x)|$  solid line

①



②



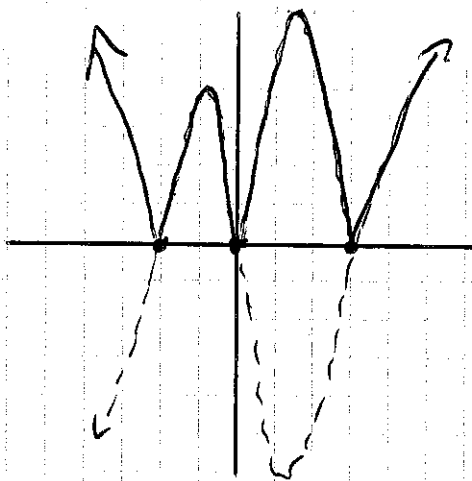
$$(x-4)^2 - 3 = 0$$

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

$$x-4 = \pm\sqrt{3}$$

$$x = 4 + \sqrt{3} \quad \text{or} \quad 4 - \sqrt{3}$$

③



Zeros:

$$x = 0, -2, 3$$

ends:

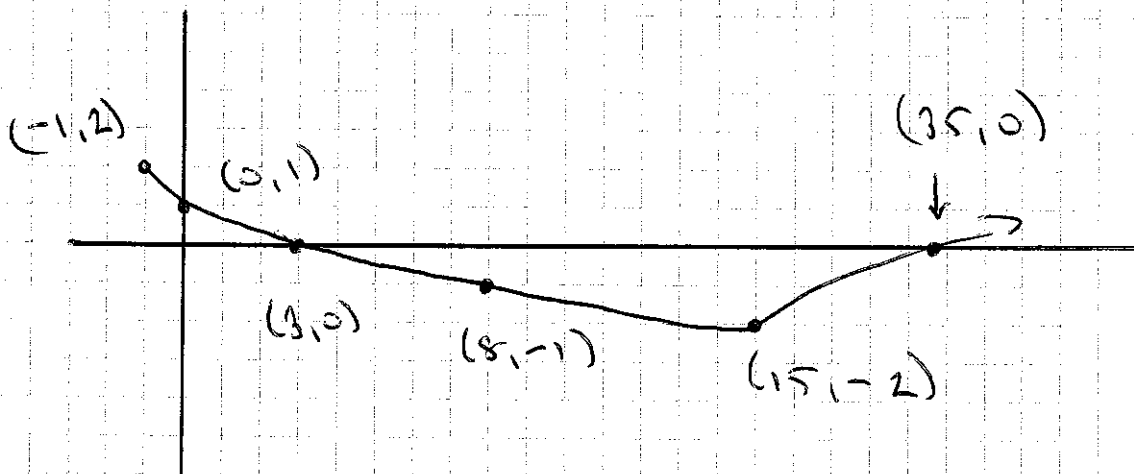
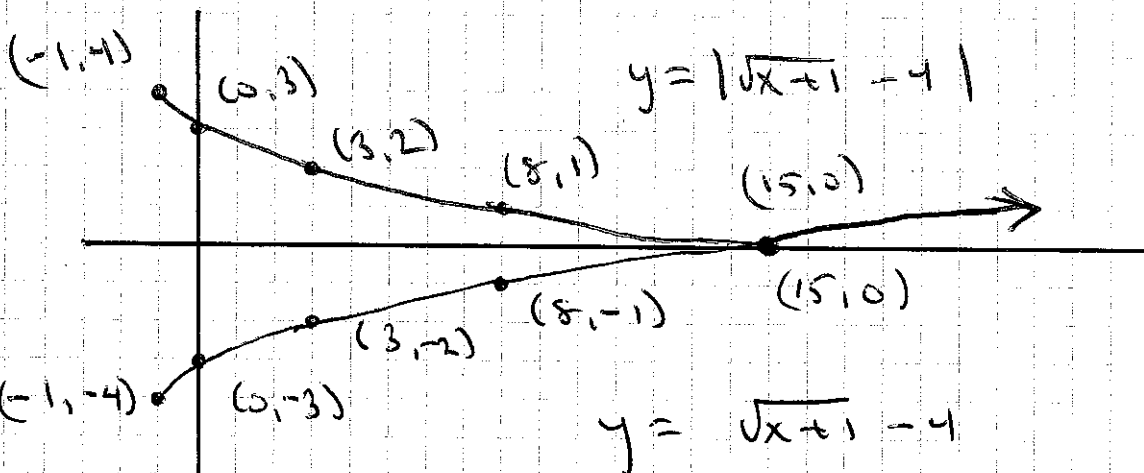
L down, R up

④

① draw  $y = \sqrt{x+1} - 4$

② draw  $y = |\sqrt{x+1} - 4|$

③ draw  $y = |\sqrt{x+1} - 4| - 2$

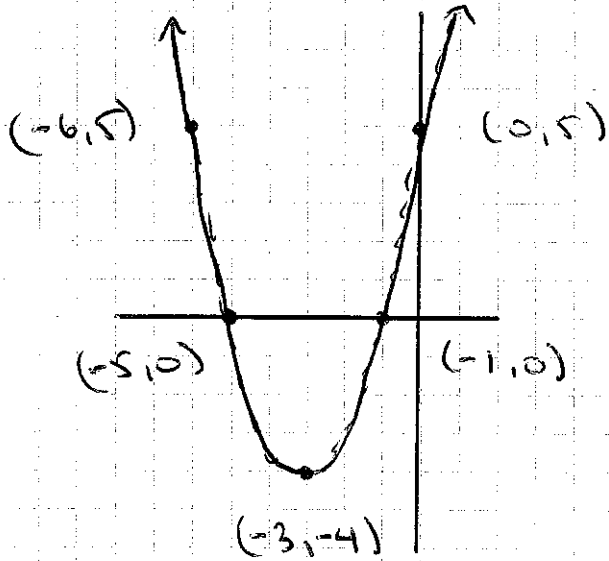


5

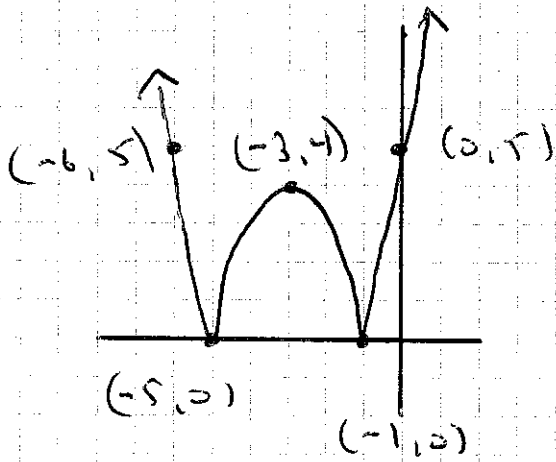
1 draw  $y = (x+3)^2 - 4$

2 draw  $y = |(x+3)^2 - 4|$

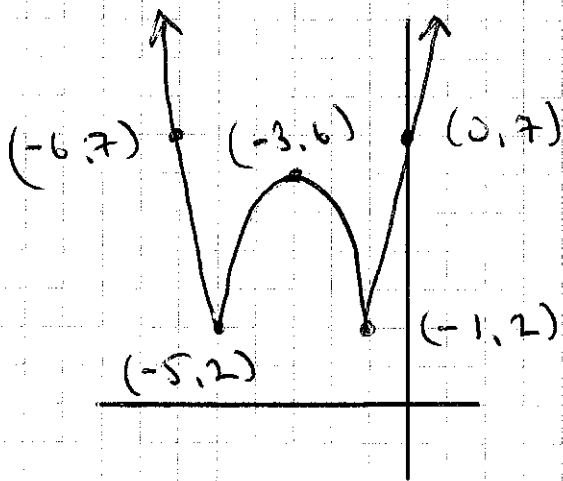
3 draw  $y = |(x+3)^2 - 4| + 2$



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

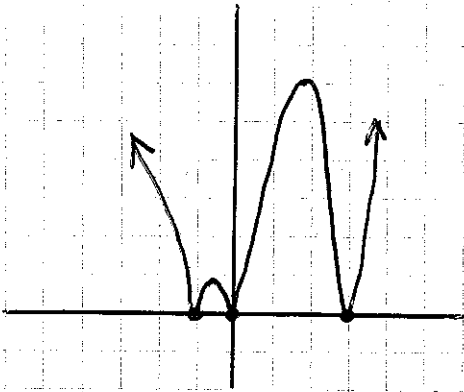


$$y = |(x+3)^2 - 4|$$



$$y = |(x+3)^2 - 4| + 2$$

6



7

