

Written assignments
to hand in.

Section 2.1

34, 38, 70

Due Friday 10/13

Section 2.2

38, 52

Due Tuesday 10/17

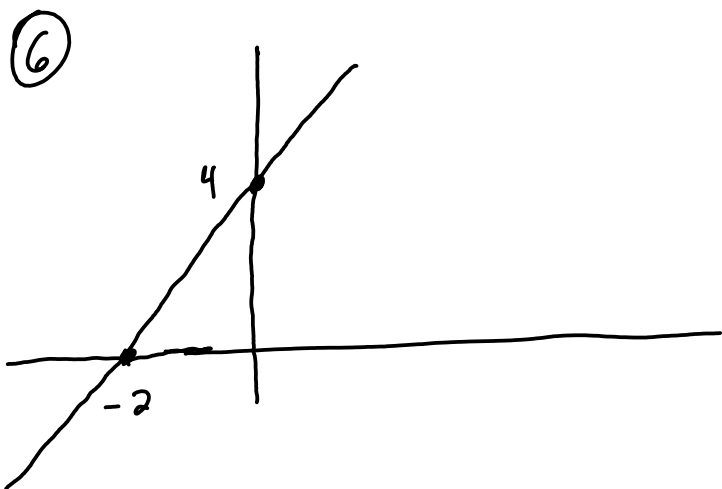
Section 2.3

8, 44

Due Wednesday 10/18

Section 2.2

Sketch the graph of the function.



Discussion Problems

From the department syllabus
These are not to hand in.

Sections 2.2, 2.3

WebAssign

Sections 2.1 + 2.2

Due Tuesday 10/17, 9pm.

$$f(x) = 4 - 2x$$

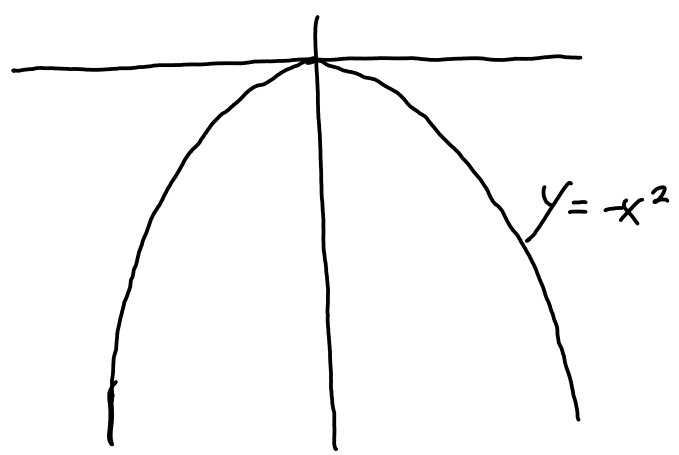
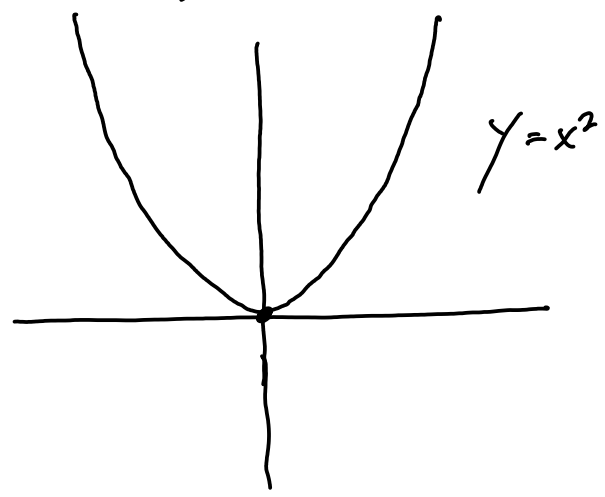
The graph of this function
is $y = f(x)$ which is

$$y = 4 - 2x$$

$$y = -2x + 4$$

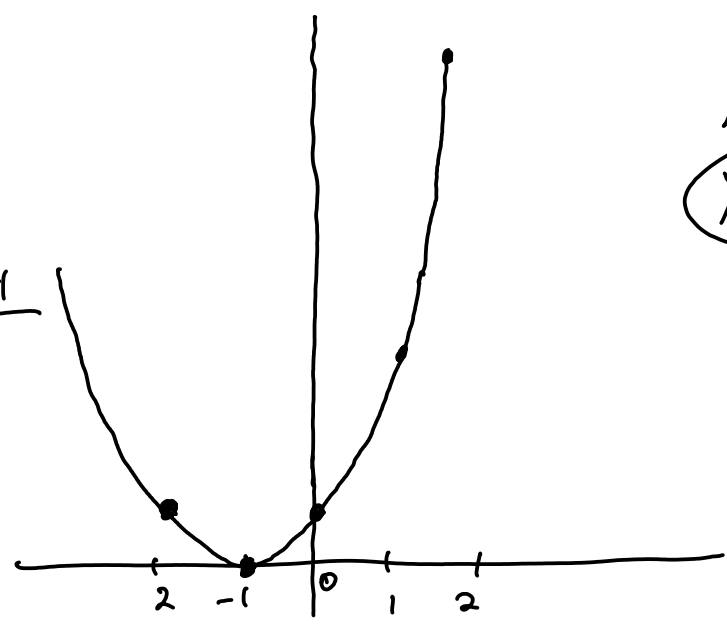
⑨ $f(x) = -x^2$ sketch its graph, $y = -x^2$

we know
 $y = x^2$



⑫ $f(x) = x^2 + 2x + 1$

x	$f(x) = x^2 + 2x + 1$
-2	1
-1	0
0	1
1	4
2	9

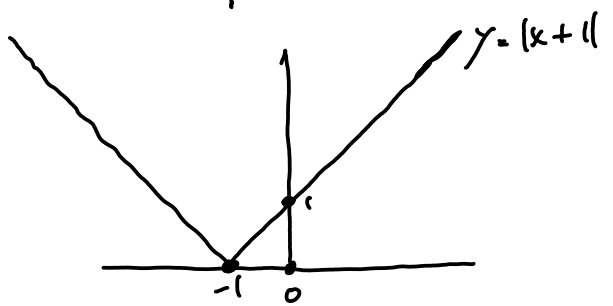
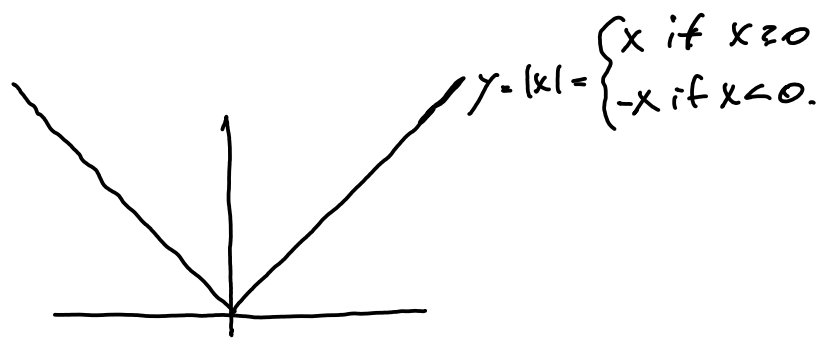


$y = x^2 + 2x + 1$
 $y = (x+1)^2$
 Shift $y = x^2$
 1 spot left.

⑭ $f(x) = |x+1|$

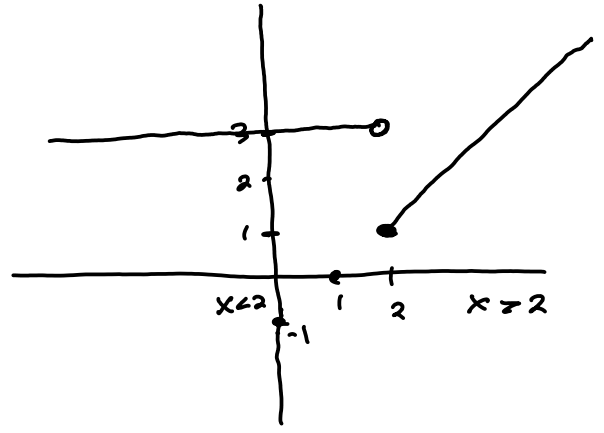
The graph $y = |x+1|$
 is obtained from

$y = |x|$



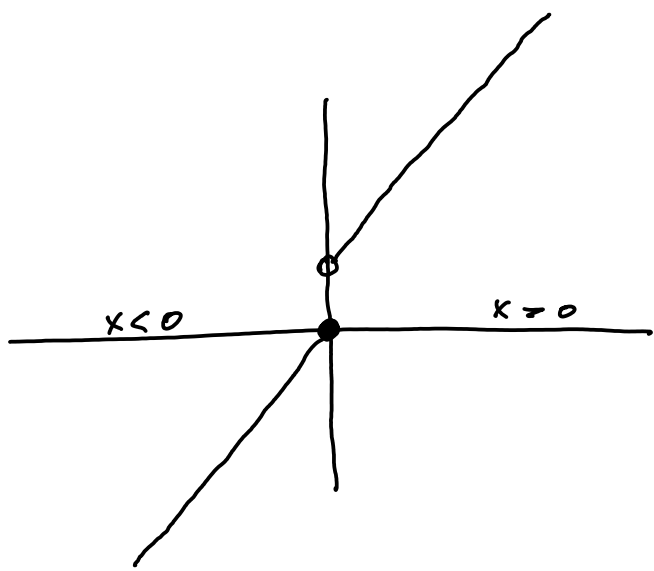
35

$$y = \begin{cases} 3 & \text{if } x < 2 \\ x-1 & \text{if } x \geq 2 \end{cases}$$



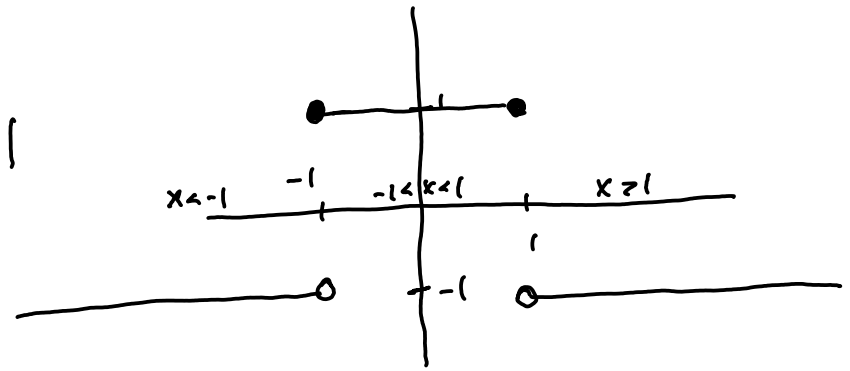
37

$$y = \begin{cases} x & \text{if } x \leq 0 \\ x+1 & \text{if } x > 0 \end{cases}$$

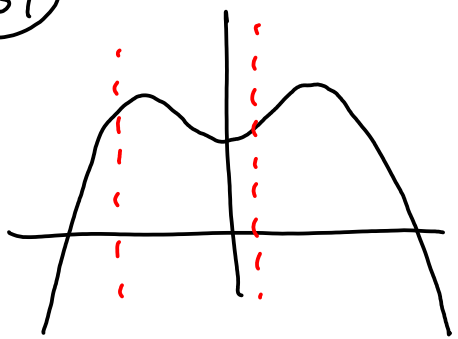


39

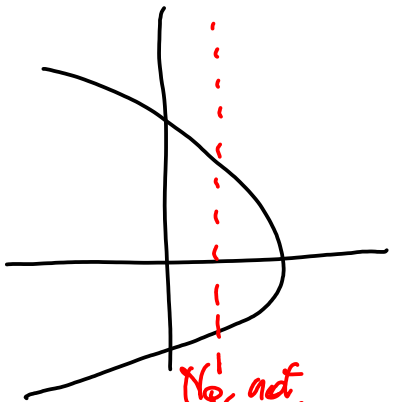
$$y = \begin{cases} -1 & \text{if } x < -1 \\ 1 & \text{if } -1 \leq x \leq 1 \\ -1 & \text{if } x > 1 \end{cases}$$



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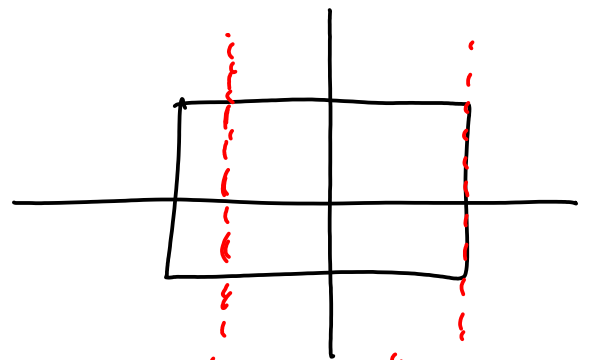
Yes, this is the graph of a function



No, not the graph of a function



Yes, this is the graph of a function



No, not the graph
of a function.