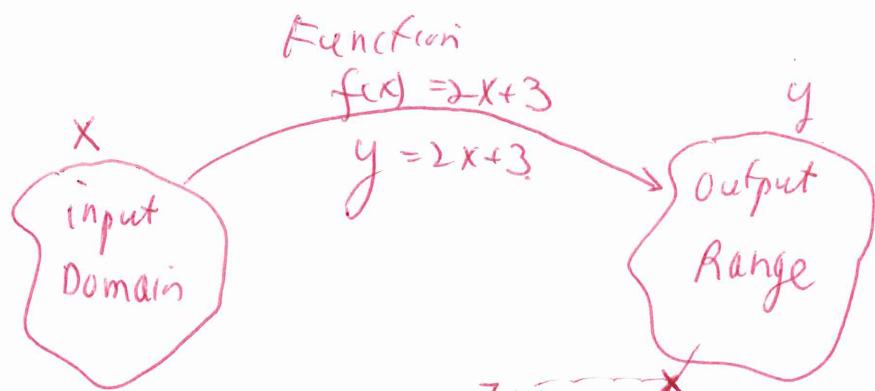
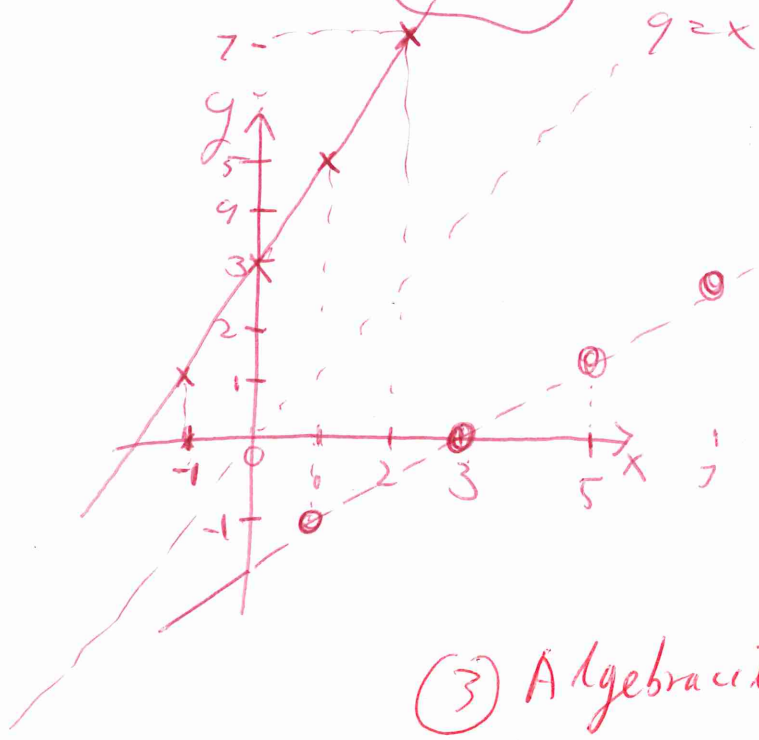


Class worksheet: Alg2H
 Inverse Function, Intro
 (Chapter 10, p5(4))



in out

| x | y |
|----|---|
| -1 | 1 |
| 0 | 3 |
| 1 | 5 |
| 2 | 7 |



①
Table:

Table

| in y | out x |
|---------|----------|
| 1 | -1 |
| 3 | 0 |
| 5 | 1 |
| 7 | 2 |

③ Algebraically

① $y = 2x + 3$

② $x = \frac{1}{2}y + \frac{3}{2}$

③ $2y = x - 3$

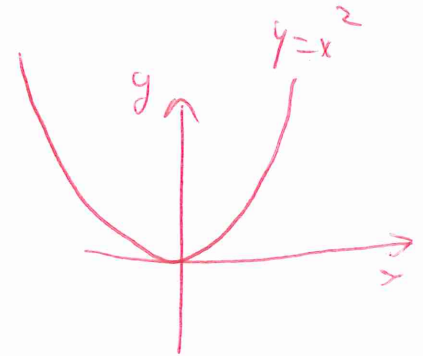
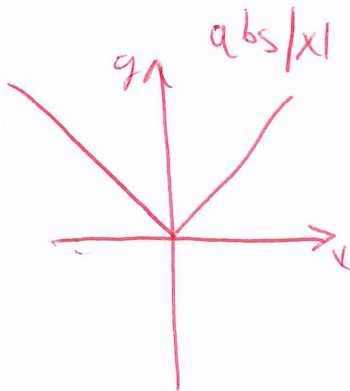
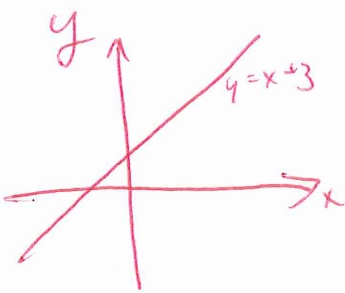
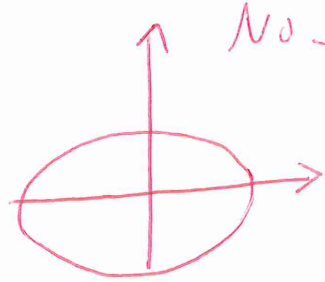
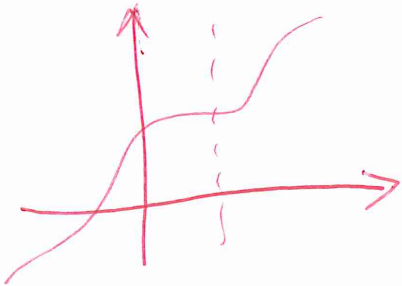
$y = \frac{1}{2}x - 1.5$

$f^{-1}(x)$
 inverse function

② → Graphically

Horizontal / Vertical line test

vertical line test \rightarrow function for each input \rightarrow one output.
 \Rightarrow Vertical line test.



1-1 function

for each output \rightarrow One input it came from

\swarrow
Horizontal line test.

$y = |x|$
 $y = x^2$ } don't pass.