

Bathroom breaks are to be
taken before class!!

Do **NOT** move the desk!!

Turn your phone **OFF**!!

Put your phone up!!

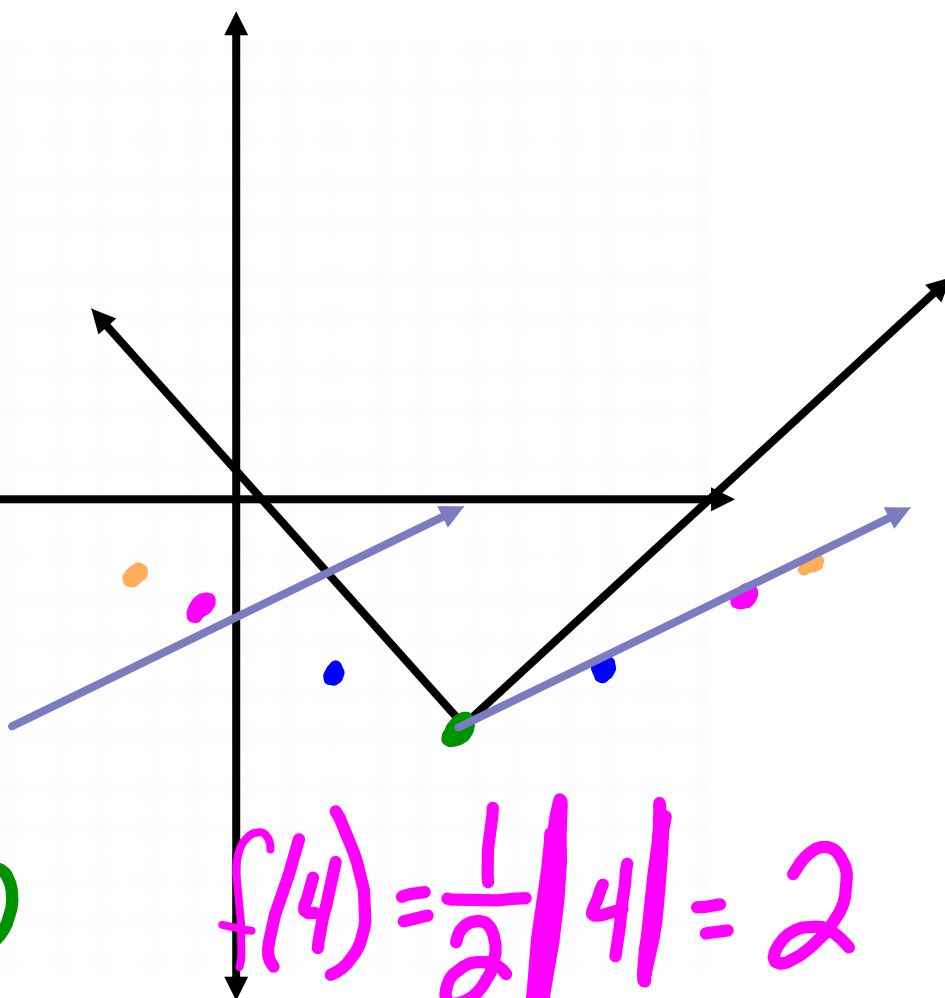
Sit down!! Be quiet!!

Prepare to work!!

Keep your hands to yourself!!

Chap 2 Sec 8

$$1) f(x) = \frac{1}{2}|x|$$



$$f(0) = \frac{1}{2}|0| = 0$$

(0,0)

$$f(4) = \frac{1}{2}|4| = 2$$

(4,2)

$$f(2) = \frac{1}{2}|2| = 1$$

(2,1)

$$f(5) = \frac{1}{2}|5| = \frac{5}{2} = 2.5$$

(5,2.5)

$$\text{Domain} \Rightarrow \{x \mid -\infty \leq x \leq +\infty\}$$

$$\text{Range} \Rightarrow \{y \mid 0 \leq y \leq +\infty\}$$

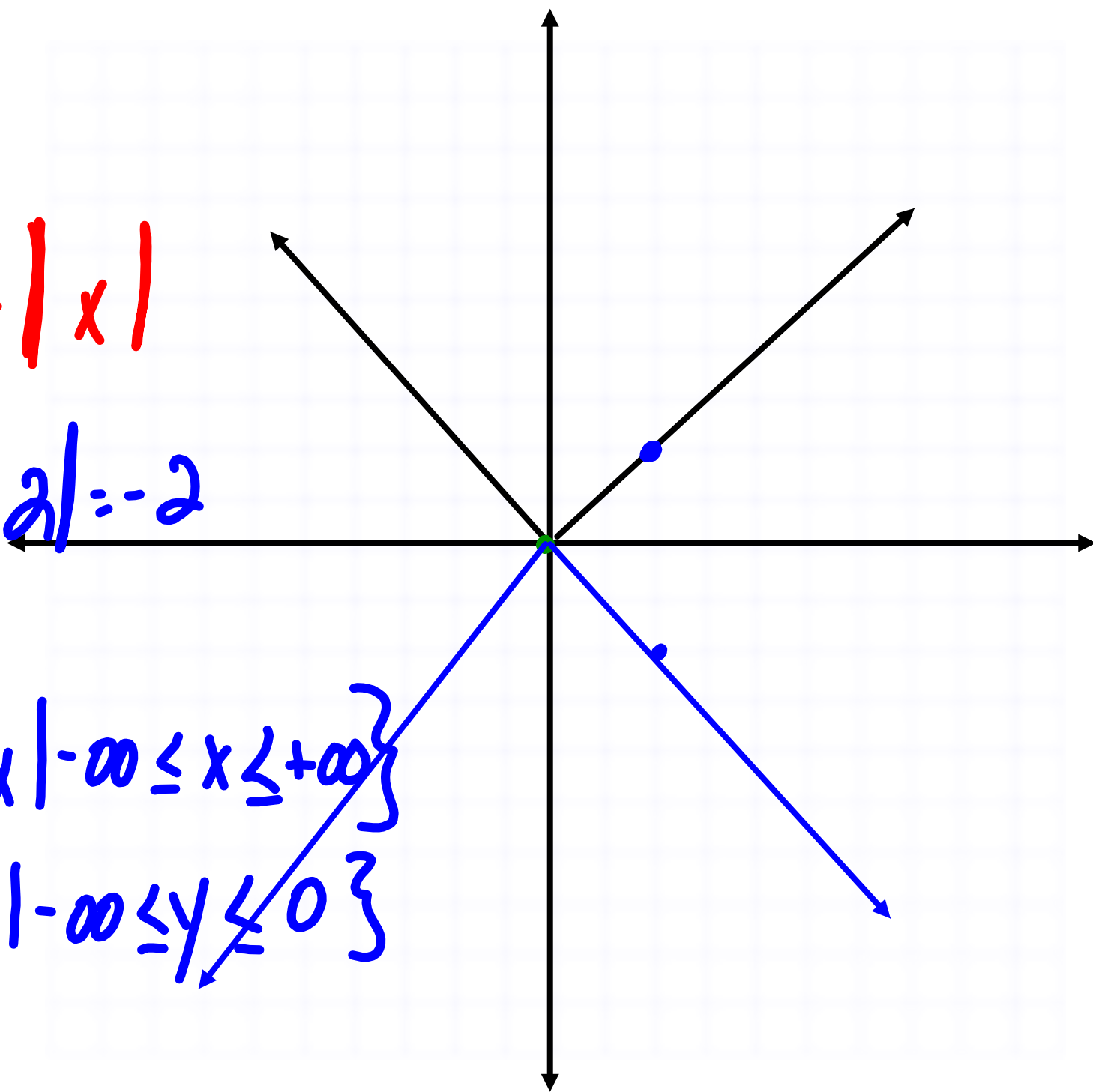
$$2) f(x) = -|x|$$

$$f(2) = -|2| = -2$$

$$(2, -2)$$

$$\text{Domain} \Rightarrow \{x \mid -\infty \leq x \leq +\infty\}$$

$$\text{Range} \Rightarrow \{y \mid -\infty \leq y \leq 0\}$$

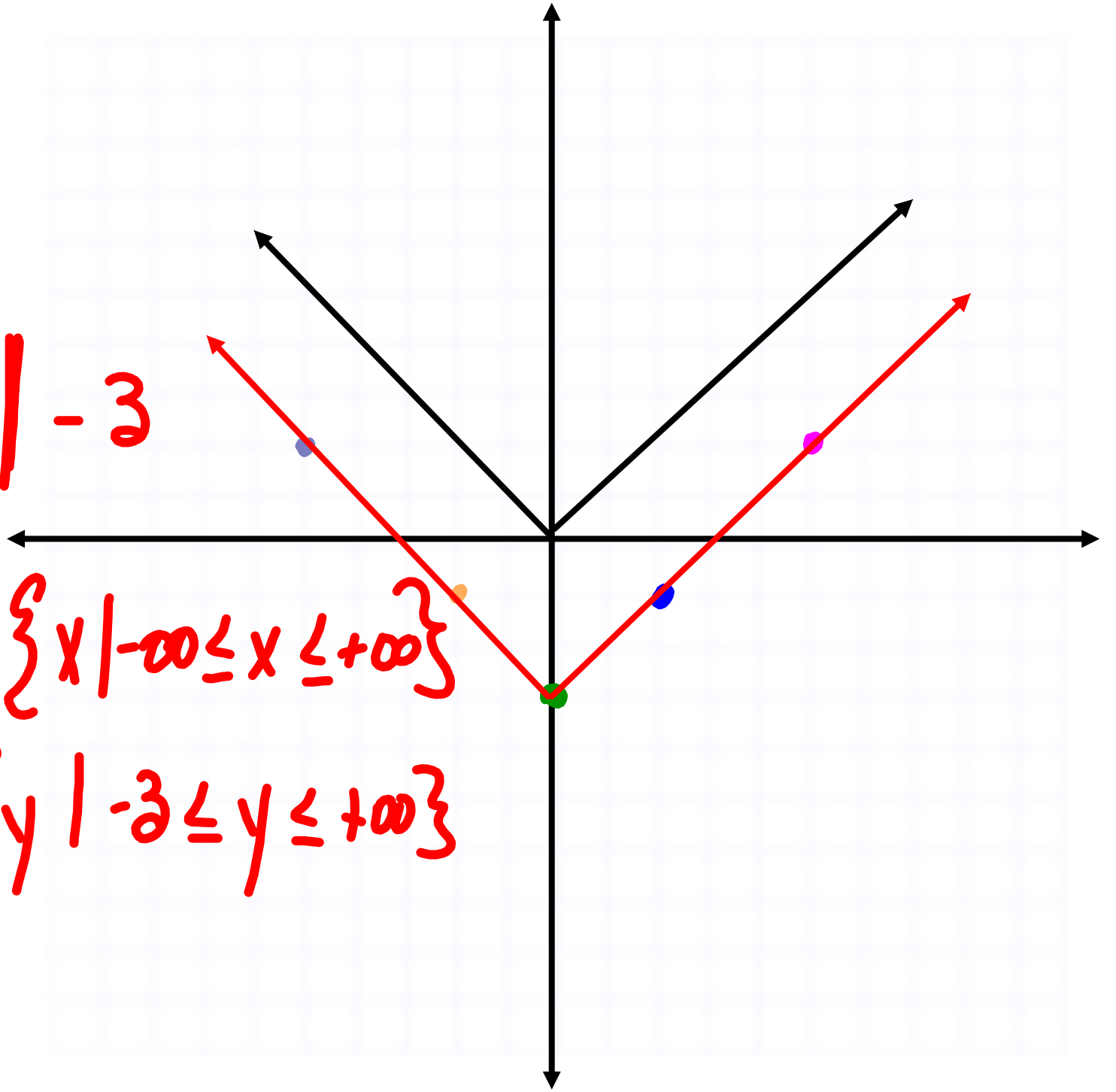


3)

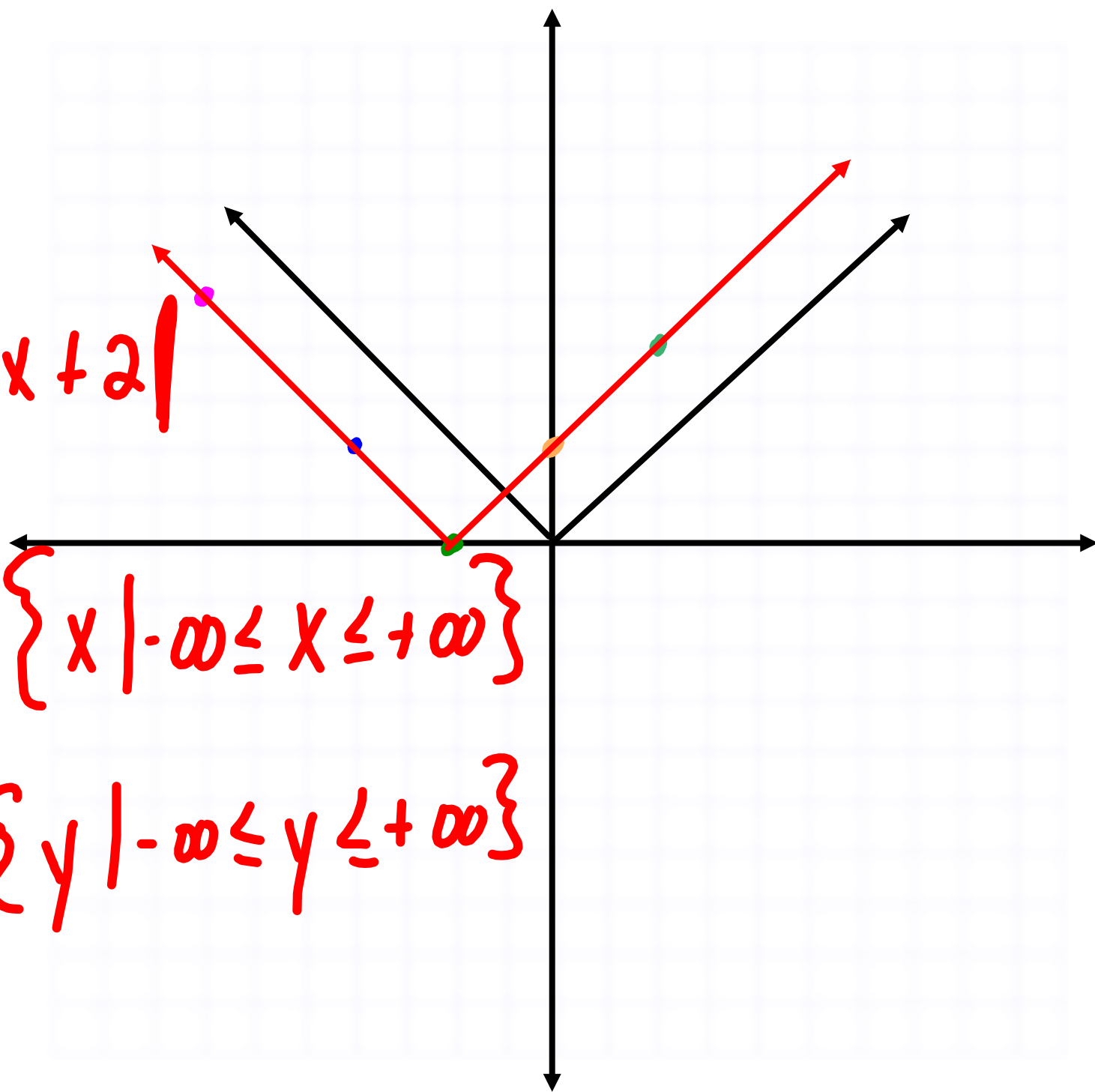
$$f(x) = |x| - 3$$

$$\text{Domain} \Rightarrow \{x \mid -\infty \leq x \leq +\infty\}$$

$$\text{Range} \Rightarrow \{y \mid -3 \leq y \leq +\infty\}$$



4) $f(x) = |x + 2|$



Domain: $\{x \mid -\infty \leq x \leq +\infty\}$

Range: $\{y \mid -\infty \leq y \leq +\infty\}$

5) $f(x) = |x - 1|$

$g(x) = |\frac{1}{4}x - 1|$

