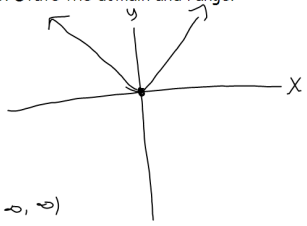
8.3

Graph. Find the turning point. State the domain and range.

① $f(x) = |x|$

$y = |x|$

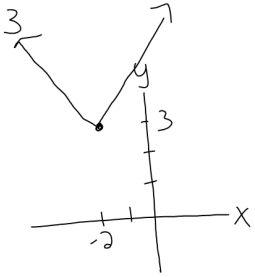


T.P. : $(0,0)$

D: $x \in \mathbb{R}$ $(-\infty, \infty)$ (x val)

R: $y \geq 0$ $[0, \infty)$ (y val)

② $f(x) = |x+2| + 3$



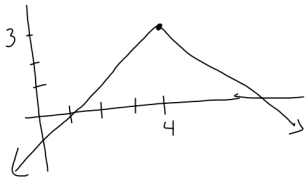
T.P. : $(-2, 3)$

D: $x \in \mathbb{R}$

R: $y \geq 3$

③ $f(x) = -|x-4| + 3$

T.P. : $(4, 3)$

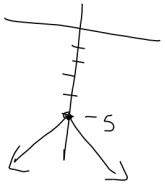


D: $x \in \mathbb{R}$

R: $y \leq 3$

④ $f(x) = -|x| - 5$

T.P. : $(0, -5)$



D : $x \in \mathbb{R}$

R: $y \leq -5$