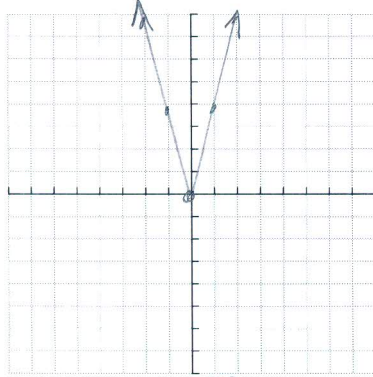


Graphing Absolute Value Functions WS

Name Justin

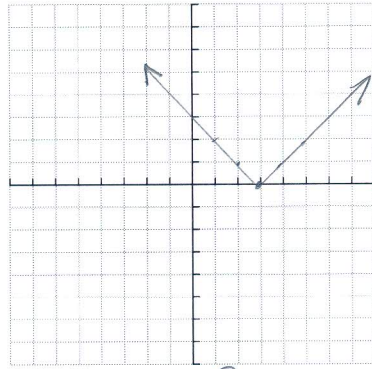
Graph the following absolute value functions using transformations. Identify the domain and range of each.

1. $f(x) = 4|x|$



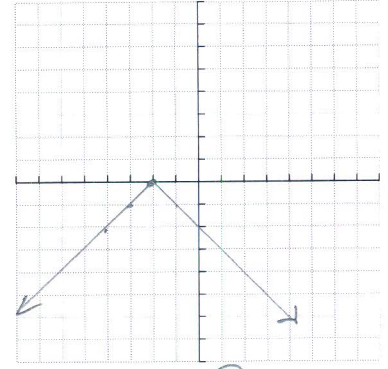
domain: \mathbb{R}
range: $[0, \infty)$

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



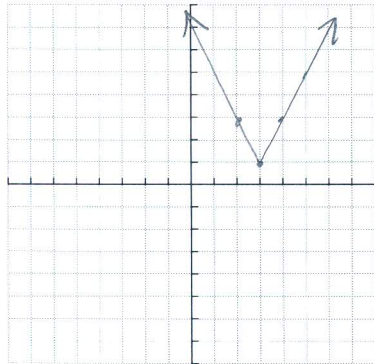
domain: \mathbb{R}
range: $[0, \infty)$

3. $f(x) = -|x+2|$



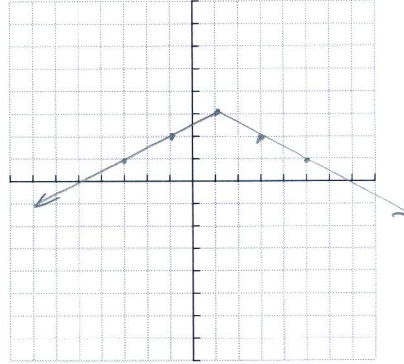
domain: \mathbb{R}
range: $(-\infty, 0]$

4. $f(x) = 2|x-3|+1$



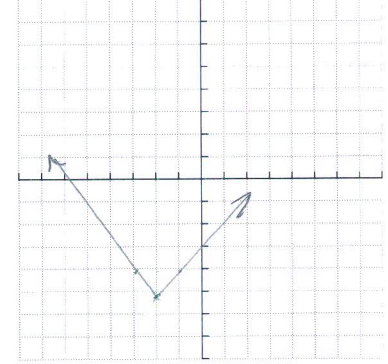
domain: \mathbb{R}
range: $[1, \infty)$

5. $f(x) = -\frac{1}{2}|x-1|+3$



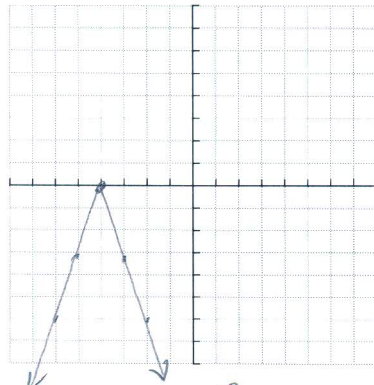
domain: \mathbb{R}
range: $(-\infty, 3]$

6. $f(x) = |x+2|-5$



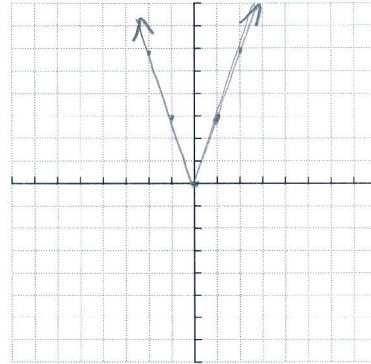
domain: \mathbb{R}
range: $[-5, \infty)$

7. $f(x) = -3|x+4|$



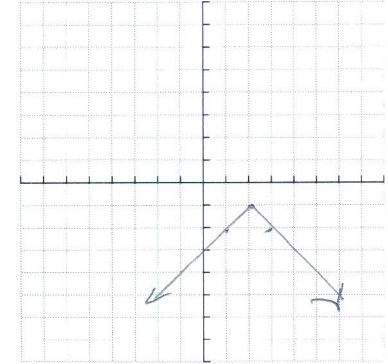
domain: \mathbb{R}
range: $(-\infty, 0]$

8. $f(x) = \frac{1}{4}|x|+3$



domain: \mathbb{R}
range: $[3, \infty)$

9. $f(x) = -|x-2|+1$



domain: \mathbb{R}
range: $(-\infty, 1]$