

LT #7: Absolute Value Functions & Graphs

State the transformations on the following absolute value function. (3 pts)

1. $y = \frac{1}{3}|x + 3| - 2$

Without graphing, identify the vertex & axis of symmetry of the following function. (2 pts)

2. $y = -2|x - 1| + 3$

Right 1
Up 3

1. Compression ($\frac{1}{3}$)

left + 3

Down 2

2. Vertex: (1, 3)

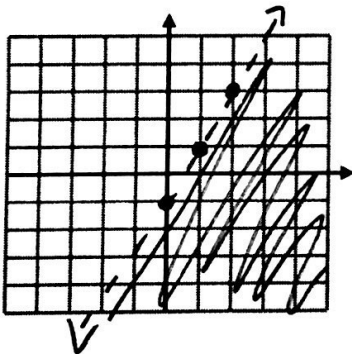
AOS: x = 1

/5

LT #8: Two-Variable Inequalities

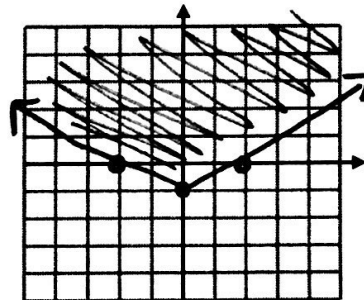
Graph and shade the following inequalities. (3pts each)

3. $y < 2x - 1$

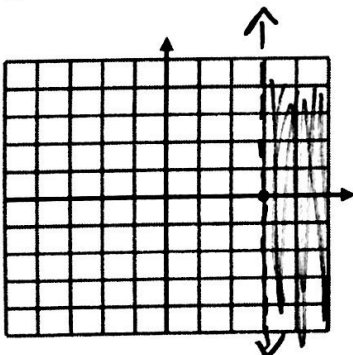


4. $y \geq \frac{1}{2}|x| - 1$

Down 1



5. $x > 3$



/9

LT #9: Dimensional Analysis

1. Convert 25mph to feet/second? (2 Point)

$$\frac{25 \text{ miles}}{\text{hr}} \cdot \frac{5,280 \text{ ft}}{1 \text{ mi}} \cdot \frac{1 \text{ hr.}}{60 \text{ min}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$$

2. How many seconds are in a day? (2 Point)

$$1 \text{ day} \cdot \frac{24 \text{ hrs}}{1 \text{ day}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{60 \text{ sec.}}{1 \text{ min}}$$

1. 36.67 ft/s

2. 86,400 s

/4