Math 29 Quiz # 2 Name Key

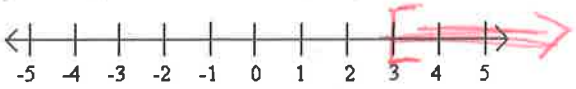
1. Solve the inequality, graph on a number line, and express in interval notation:

$$-5x - 7 \leq -22$$

$+7 \quad +7$

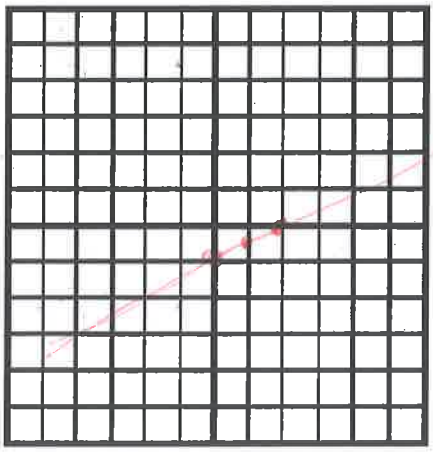
$\frac{-5x}{-5} \leq \frac{-15}{-5}$ flip direction

$x \geq 3$



Interval Notation: $[3, \infty)$

2. Find 3 ordered pair solutions and sketch the graph of $y = \frac{1}{2}x - 1$



I choose $x = 0$, $x = 1$, $x = 2$ } calculate matching values

x	y
0	-1
1	-½
2	0

$y = \frac{1}{2}(0) - 1$

$y = \frac{1}{2}(1) - 1 = \frac{1}{2} - 1 = -\frac{1}{2}$

$y = \frac{1}{2}(2) - 1 = 1 - 1 = 0$