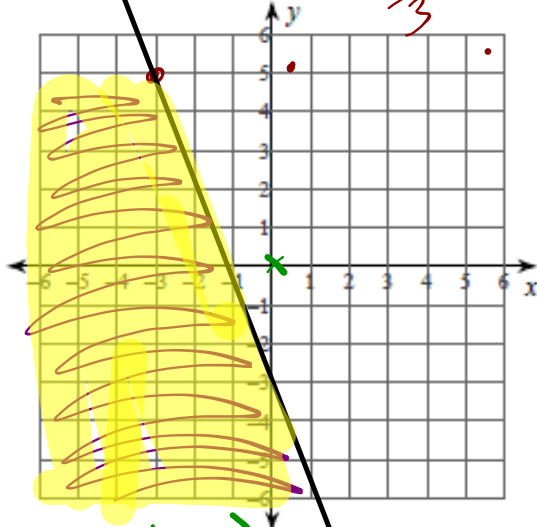


# WARM-UP: Graph each of the following...

1)  $y \leq -\frac{8}{3}x - 3$

$y = -\frac{8}{3}x - 3$

$m = -\frac{8}{3}$  vs  $m = \frac{8}{3}$



Test (0,0)

LS  $\leq$  RS

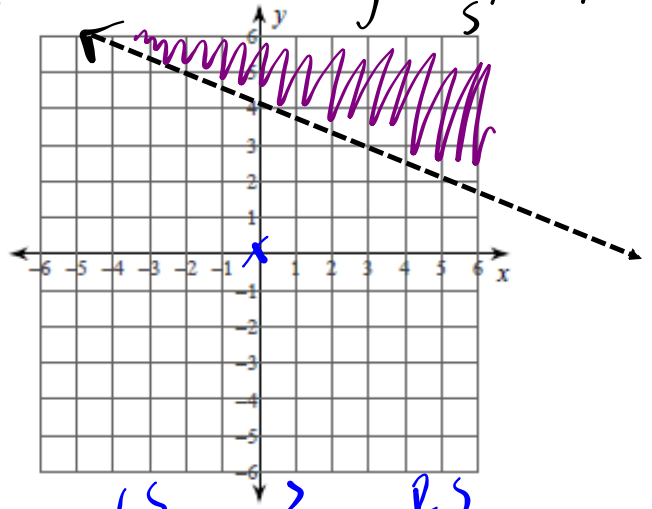
0	$-\frac{8}{3}(0) - 3$
---	-----------------------

$\leq -3$  Not a solution.

2)  $2x + 5y - 20 > 0$

$5y = -2x + 20$

$y = -\frac{2}{5}x + 4$



LS  $>$  RS

$2(0) + 5(4) - 20$	$>$	0
$-20$		

NO

# HW Questions

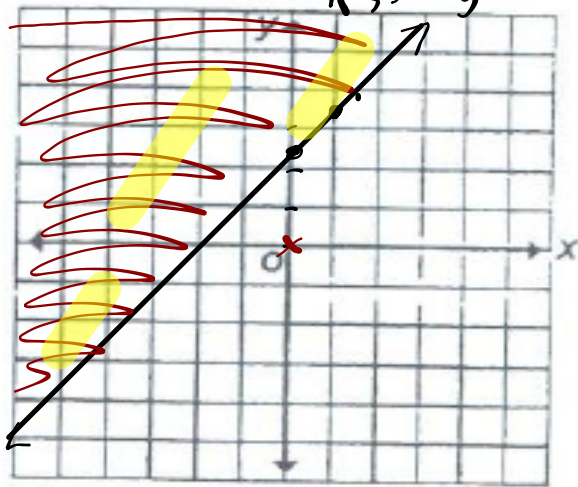
Hamburger → MEET PATTY

Pigs → THEIR FATHER WAS A BOAR

$$\frac{LS}{2(0-0)} \geq \frac{RS}{5}$$

$$\textcircled{10} \quad 2(x-y) \geq 5$$

solid boundary



$$2(x-y) = 5$$

$$2x - 2y = 5$$

$$-\frac{2y}{-2} = \frac{-2x + 5}{-2}$$

$$y = x - 2.5$$

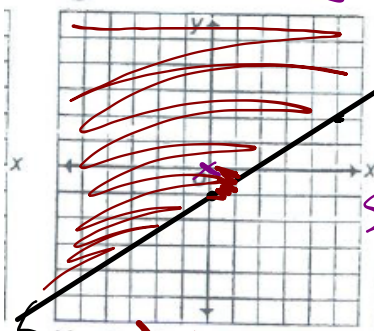
~~Y~~ All four quadrants; excludes boundary line.

~~U~~ Quadrants II, III, IV; includes boundary line.

**A** Quadrants I, III, IV; includes boundary line.

11)  $5y - 2 \geq 3x - 7$

Test (0,0)



$LS \geq RS$

$$\begin{array}{r|l} 5(0) - 2 & 3(0) - 7 \\ \hline -2 & -7 \\ -2 & \geq -7 \\ & \text{Yes} \end{array}$$

$$5y - 2 = 3x - 7$$

$$5y = 3x - 7 + 2$$

$$5y = 3x - 5$$

$$y = \frac{3}{5}x - 1$$

~~N~~ Quadrants I, III, IV; excludes boundary line.

**B** All four quadrants; includes boundary line.

D Quadrants I, II, IV; includes boundary line.

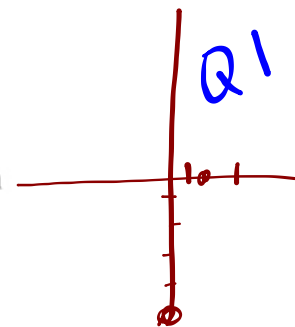
# WARM-UP: Let's Review...

## PRIOR KNOWLEDGE???

**WORDS You Need to Communicate Effectively** Warm Up - Prior Knowledge for Coordinate Geometry.docx

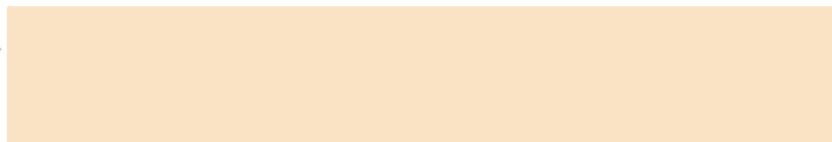
1. Match each term with the best example or description on the right.

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>✓ a) linear equation</li> <li>✓ b) <del>x- and y-intercepts</del></li> <li>✓ c) slope</li> <li>✓ d) linear inequality</li> <li>e) dependent variable</li> <li>f) domain</li> <li>g) range</li> <li>h) discrete</li> <li>i) continuous</li> <li>j) independent variable</li> <li>✓ k) quadrant I</li> </ul> | <ul style="list-style-type: none"> <li>i) <span style="color: red;">C</span> the value 3 in the equation <math>y = 3x + 1</math></li> <li>ii) <math>\{1, 2, 3\}</math> in the solution set <math>\{(1, 5), (2, 6), (3, 7)\}</math></li> <li>iii) in a relationship, the variable graphed on the <math>y</math>-axis</li> <li>iv) <span style="color: red;">a</span> <math>2y = 3x + 7</math></li> <li>v) <span style="color: red;">d</span> <math>3 \leq x + 5</math></li> <li>vi) term used to describe a solution set from the set of real numbers</li> <li>vii) <span style="color: red;">b</span> <math>(\frac{5}{4}, 0)</math> and <math>(0, -5)</math> for the graph of <math>y = 4x - 5</math></li> <li>viii) <math>\{5, 6, 7\}</math> in the solution set <math>\{(1, 5), (2, 6), (3, 7)\}</math></li> <li>ix) in a relationship, the variable graphed on the <math>x</math>-axis</li> <li>x) term used to describe a solution set from the set of integers</li> <li>xi) <span style="color: blue;">k</span> the part of the coordinate plane where <math>x &gt; 0</math> and <math>y &gt; 0</math></li> </ul> |
|---|--|



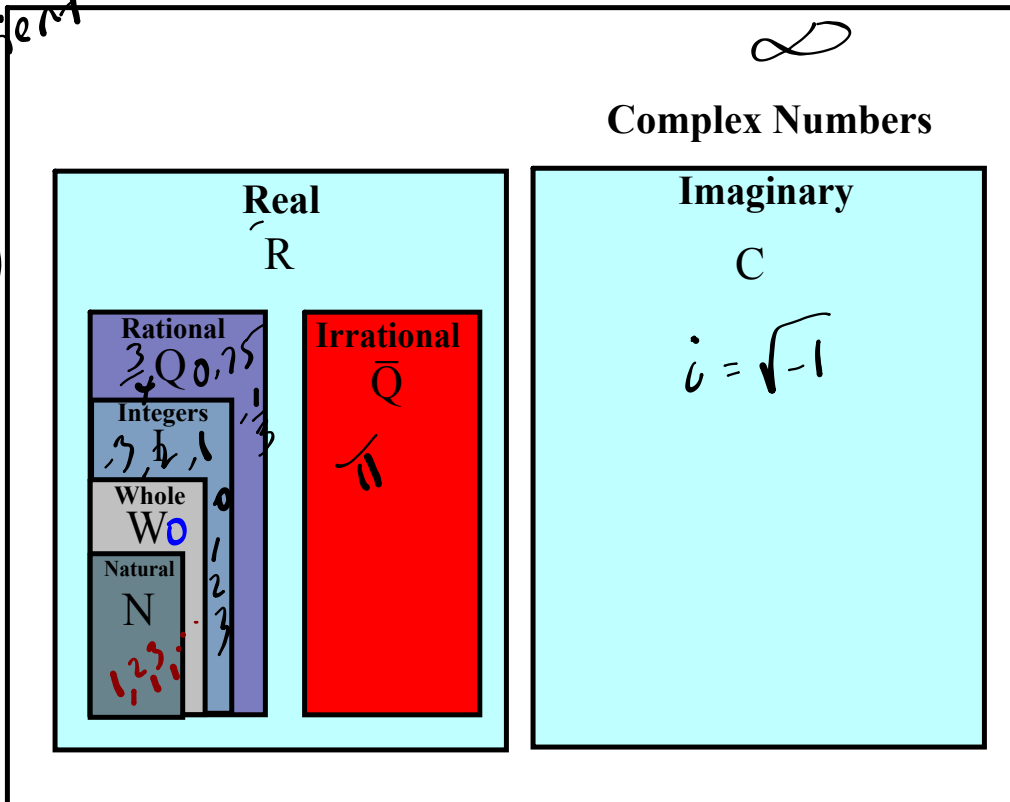
**Answers**

1.



### STORYTIME: "The Complete Number System"

*Q - quotient  
3/14*



$N - 1, 2, 3, \dots$

$W - 0, 1, 2, \dots$

$\mathbb{I} - \dots, -2, -1, 0, 1, 2, \dots$

$\mathbb{Q}$  - Rational  $\Rightarrow$  Decimal stops or repeats

$\mathbb{Q}$  - Irrational  $\Rightarrow$  Decimal goes on forever

$\mathbb{R}$  - include all  $N, W, \mathbb{I}, \mathbb{Q} \in \mathbb{R}$

# HOMework...

p. 221: #1 & #5

## Attachments

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Warm Up - Prior Knowledge for Coordinate Geometry.docx