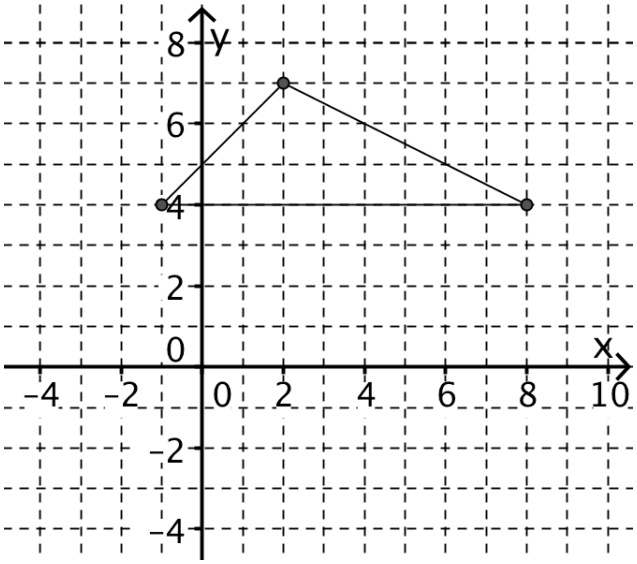
IQ.0 Line Art

Crazy Arrow

Name: Teacher: Date: Period:

Inequalities Learning Targets

A-REIc: ***I can represent and solve equations and inequalities graphically.***



ite the linear function and domain of line segment.

Linear Function	Domain
y = x + 5	-1 ≤ x ≤ 2

or in the triangle in the interior.
at is the range of the triangle?

3. Draw the line with the given domain.

Linear Function	Domain
y = -1	-1 ≤ x ≤ 8
$y = -\frac{5}{4}x + 9$	4 ≤ x ≤ 8
$5x - y = -4$	-1 ≤ x ≤ 0
y = 4	-1 ≤ x ≤ 8

4. Color in the quadrilateral in the interior. What is the range of the quadrilateral?

5. Use technology to check your line segments - use a TI -84 or www.geogebra.org www.desmos.com
   a) Check the triangle.
   b) Check the quadrilateral.

6. Use technology to rewrite the linear function as an inequality that represents the shaded region.

Linear Function	Inequality
$y = x + 5$	$y \leq x + 5$
$y = -\frac{1}{2}x + 8$	
$y = 4$	
$y = -1$	
$y = -\frac{5}{4}x + 9$	
$5x - y = -4$	

7. Make your own design similar to mine with 12 or fewer lines.
You need to turn in the directions and the drawing on graph paper.

Linear Function	Domain	Inequality