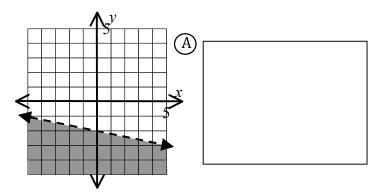
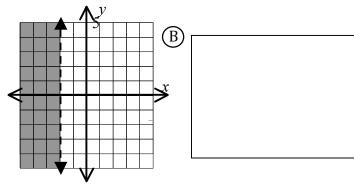
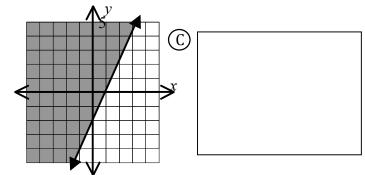
Write the matching inequality or inequalities in the box for each graph A through C.







$$y > 2x - 2$$

$$y < -2$$

$$5x + y > -2$$

$$x < -2$$

$$y \ge 2x - 2$$

$$-2x + y \ge -2$$

$$y < -\frac{1}{5}x - 2$$

## Key:

(A) 
$$y < -\frac{1}{5}x - 2$$

$$(B)$$
  $x < -2$ 

## **Distractor Analysis:**

y > 2x - 2 with Graph A confuses strict inequality with boundary line included.

y < -2 with Graph B switches the *y*-axis with *x*-axis.

5x + y > -2 with Graph C confuses slope -5 with slope  $-\frac{1}{5}$ .

## Scoring:

2 Points Four correct matches with no incorrect matches

1 Point Two or three correct matches and one or no incorrect matches

0 Points Two or more incorrect matches

## **Reasoning with Equations and Inequalities**

A-REI

Represent and solve equations and inequalities graphically.

12. Graph the solutions to a linear inequality in two variables as a half-plane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.