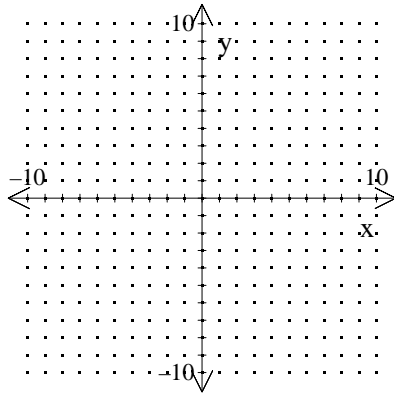


NAME: _____

P.I. A.G.6: Graph linear inequalities

1. Use the symbol \geq to write a linear inequality that has $(-3, 3)$ as a solution. Draw a graph to show that $(-3, 3)$ is a solution to your inequality.

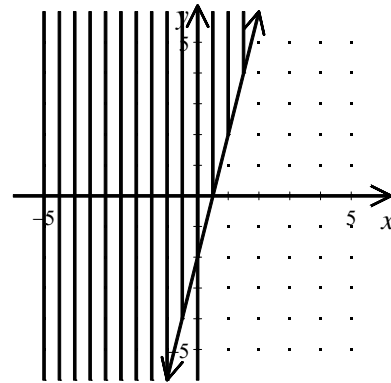


[1] _____

2. Write an inequality that has $(-1, -15)$, $(2, -2)$, $(5, 8)$, and $(-5, -17)$ as solutions.

[2] _____

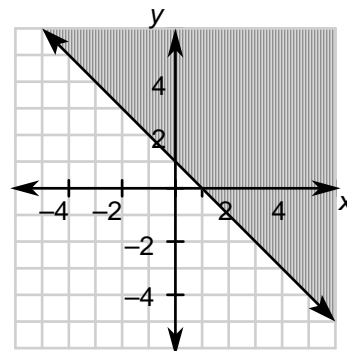
3. Which statement describes the graph?



- [A] $4x - y \geq -2$ [B] $4x - y > -2$
[C] $4x - y = -2$ [D] $4x - y \leq 2$
[E] $4x - y < -2$

[3] _____

4. Which statement describes the graph?

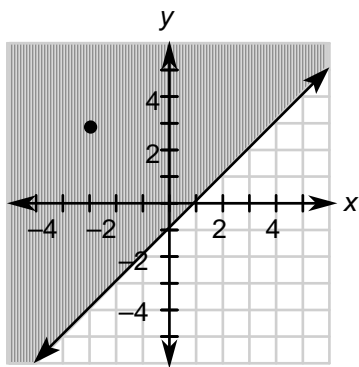


- [A] $y > -x + 1$ [B] $y \geq -x + 1$
[C] $y < -x + 1$ [D] $y = -x + 1$
[E] $y \leq -x + 1$

[4] _____

Answers may vary. Sample:

$$y \geq x - 1$$



[1]

[2] Answers will vary. Sample: $y \geq 3x - 12$

[3] D

[4] B