

Coordinate Algebra
Properties & Systems of Inequalities

Name: W
Date: _____ Period: _____

C 1. Which point is a solution to the system? $\begin{cases} y < -2x + 5 \\ y \geq x + 3 \end{cases}$

- A. (1,5)
- B. (5,3)
- C. (-4,6)
- D. (-1,10)

D 2. Which property justifies the statement if $d = e$, then $e = d$?

- A. Substitution Property of Equality
- B. Reflexive Property of Equality
- C. Transitive Property of Equality
- D. Symmetric Property of Equality

B 3. Which property justifies the statement if $5 = 3x + 2$, then $3 = 3x$?

- A. Addition Property of Equality
- B. Subtraction Property of Equality
- C. Symmetric Property of Equality
- D. Transitive Property of Equality

b 4. Which graph shows the solutions to the system $\begin{cases} y + x > 2 \\ y \leq 3x - 2 \end{cases}$

