

Algebra 8r Midyear Most Missed Problems

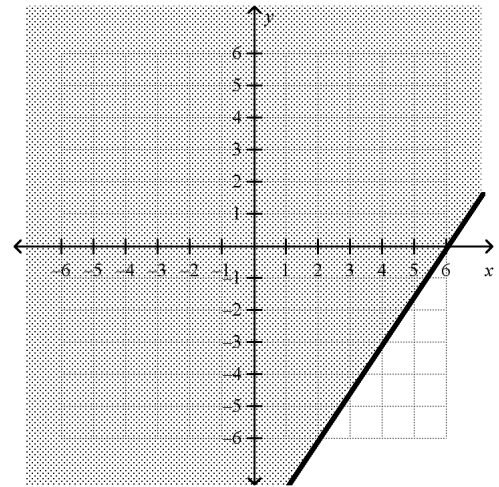
Short Answer Directions: Show all thinking and box/circle your final answer.

- 1 Home Depot is selling boxes of Grip-Rite 3-1/4 in. x 0.131 Plastic Bright Vinyl-Coated Steel Smooth Shank Round Framing Nails (4,000 per Box) at a discount if you buy more than one box. The first box costs \$50.93, but each additional box costs only \$40.93. Write the equation that represents the total cost, c , for boxes, b , of these nails at Home Depot.

- 2 Solve the inequality (leave final answer as a simplified fraction if needed):

$$\frac{7(4x-9)}{-8} \geq -13x-5$$

- 3 Write the inequality that represents the following graph:



- 4 Solve the following linear system:

$$\begin{cases} -4y - 17 = -7x \\ -3x = 3y + 21 \end{cases}$$

- 5 Which of the following points is a solution to the following system of inequalities? Be sure to show your

thinking for credit here. $\begin{cases} y \leq 2x - 4 \\ x + y \geq 5 \end{cases}$

A. $(-2, 10)$

D. $(7, -1)$

B. $(3, -5)$

E. None of These

C. $(4, 6)$