

Show What You Know...Inequalities

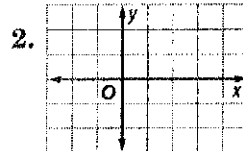
name _____ date _____ block _____ score _____

1. From the set $\{(0, 1), (3, -3), (4, 2), (-1, 2)\}$, which ordered pairs are part of the solution set for $x - y < 0$?

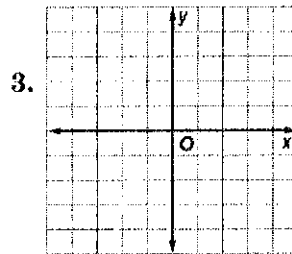
1. _____

For Questions 2 and 3, graph each inequality.

2. $x < 3$



3. $-2(x - y) \leq 4$

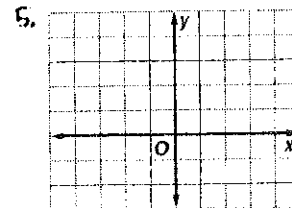


4. **CLOTHING** Rita plans to spend at most \$230.00 on a new wardrobe. The skirts she wants to buy cost \$35 each, and the blouses cost \$25 each. Write an inequality that represents the number of skirts and blouses Rita can buy. Can Rita buy 4 skirts and 4 blouses?

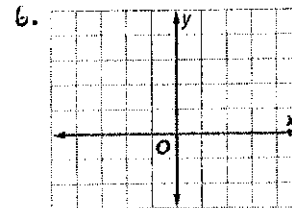
4. _____

For Questions 5-7 solve each system of inequalities by graphing.

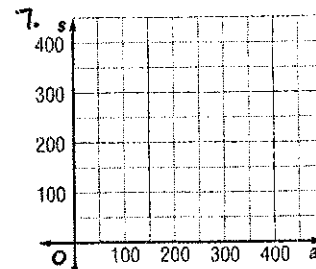
5. $y \geq 2$
 $x + y \leq 3$



6. $y < 2x - 1$
 $y \leq -x + 4$



7. Adult tickets to the school musical are \$5 and student tickets are \$2. There are 300 seats in the auditorium where the musical is being performed. The goal for ticket sales for one performance is at least \$900. Make a graph showing the number of each kind of ticket needed to be sold to reach the goal. List three possible solutions.



Write the equation of a line that is parallel to $x - 4y = 8$ and passes through the point $(-8, 3)$ in all three forms of a linear equation:

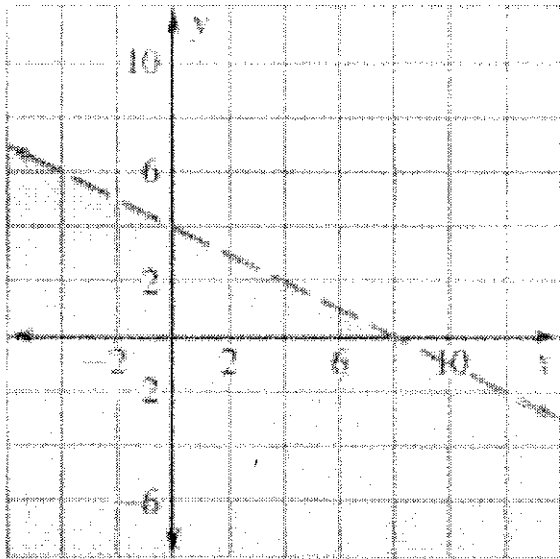
8. Standard _____

9. Point-slope _____

10. Slope-intercept _____

Write a linear inequality or a system of linear inequalities to describe each graph below.

11.



12.

