

Name: _____ Show work needed to justify your answer. Date: _____

HW # 35a: Algebra 1 - Standard 22 - Solve Compound Inequalities

5 points

Solve each compound inequality. Then graph the solution set.

3. $y - 1 \geq 7$ or $y + 3 < -1$



8. $22 \geq 4m - 2$ or $5 - 3m \leq -13$



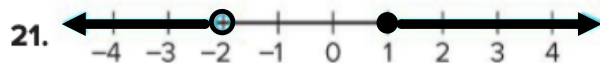
9. $-y + 5 \geq 9$ or $3y + 4 < -5$



14. $5n - 1 < -16$ or $-3n - 1 < 8$



Write a compound inequality that describes each graph.



40. **CONSTRUCT ARGUMENTS** Bianca said that if k is a real number, then the solution set of the compound inequality $x < k$ or $x > k$ is all real numbers. Do you agree? Justify your argument.