8 Algebra CC

Graphing Linear Inequalities

Graphing Linear Inequalities is just like graphing a linear equation but with a few extra steps.

- 1) Rewrite the inequality in "y = mx + b" form if necessary.
- 2) Graph the linear inequality as if it were a linear equation.
- 3) Use a dashed ---- line for <, > and a solid line ---- for \leq , \geq .
- 4) Shading: When using > or ≥, shade above the line When using < or ≤, shade below the line</p>
- 5) Always check to see that you have represented the correct solution set by testing a point in the shaded region.
- 6) If the test point makes the inequality true, you shaded correctly. If the test point in the shaded region makes the inequality false, shade the other half plane.
- 7) Label the graph with the original inequality.

Graph the solution sets to the following linear inequalities.

1. x < 5

2. y < -x + 1











