

Test Point Method for Graphing Linear Inequalities in Two Variables:

$$Ax + By \leq C, Ax + By \geq C, Ax + By < C, Ax + By > C$$

1. Graph $Ax + By = C$. (Using the x - and y -intercepts are usually best.)
Use solid line for inequalities with \geq or \leq , and use dashed line for inequalities with $>$ or $<$.
2. Test any point **not** on the line to see if it satisfies the inequality.
3. Shade the Solution Set:
If the test point satisfies the inequality, shade the region containing the test point;
if not, shade the other region.