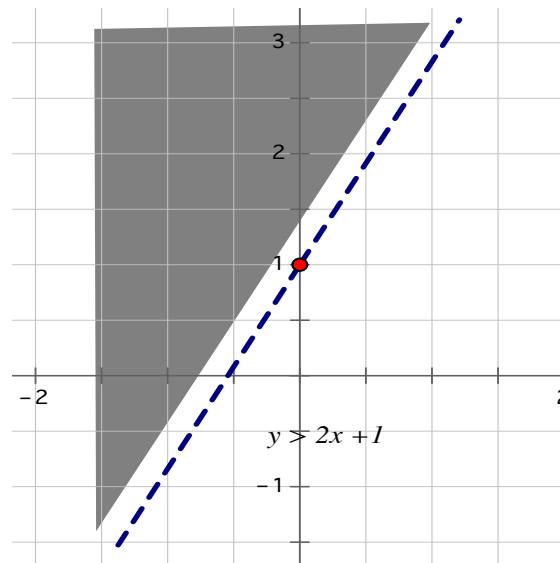# Graphing Inequalities

Algorithm for Graphing Linear Inequalities

1. Graph the boundary line
2. Determine if the boundary line is solid or dashed
3. Pick a convenient trial point (ordered pair) to determine which side of the boundary will be shaded

Graph $y > 2x + 1$

Convenient trial point - origin

Line is dashed - - - - - when > or <

Line is solid ——— when $\geq$ *or* $\leq$

When y is greater than, shade above the line.

When y is less then, shade below the line