Graphing Linear Inequalities by Inspection

Plot the boundary lines using either

Slope Intercept; y = mx + b　　　　　　　**General; Ax + By = C**

    1. Plot y_{int} (b)　　　　　　　　　　1. Let x = 0 to find y_{int}
    2. From b, use m to find　　　　　　2. Let y = 0 to find x_{int}
        2nd point　　　　　　　　　　　　3. Connect points
    3. Connect points　　　　　　　　　　　　* slope is –A/B

If the inequality sign also contains and equality (≥), graph a SOLID line.
If the inequality sign does not contain an equality (>), graph a DASHED line.

If +y is greater than – shade ABOVE the line.
If +y is less then – shade BELOW the line

Graph the following linear inequalities

Use y = mx + b　　　　　　　　　　**Use Ax + By = C**

1.　$y > 2x + 3$　　　　　　　　　　2.　$3x + 2y > 6$

3.　$y \geq 4x - 2$　　　　　　　　　　4.　$4x - 3y \geq 12$

5.　$y < \dfrac{2}{5}x + 3$　　　　　　　　6.　$5x - 2y < 10$

7.　$y \leq -\dfrac{3}{4}x + 1$　　　　　　　8.　$x + y \leq 3$

9.　$y > -3x + 6$　　　　　　　　　10.　$3x + y \geq 6$