1. **Equalities and Inequalities in Two Dimensions** Graph the following equalities and inequalities on a coordinate plane (on a separate piece of graph paper). Identify a point \((x, y)\) that satisfies each (in)equality.

   (a) \(y > 3\)

   (b) \(x < 2\) and \(y > -1\)

   (c) \((x > 4 \text{ or } x \leq -1)\) and \((y > 0 \text{ and } y < 2)\)

   (d) \((x > 4 \text{ or } x \leq -1)\) or \((y > 0 \text{ and } y < 2)\)

   (e) \(y = x\)

   (f) \(y \geq x\)

   (g) \(y \leq 3x - 4\)

   (h) \(y \leq 3x - 4 \text{ and } y < -2x + 1\)
(i) \( y < -\frac{3}{4}x + 1 \) and \( y > -\frac{3}{4}x + 4 \)

(j) \( y + 2 = \frac{3}{2}x \) and \( y > 2x + 1 \)

(k) \( x \geq -2y + 5 \) and \( y < 3 \)

(l) \( y > \frac{4}{7}x - 3 \) and \( x < 2y \) and \( 4x + 1 \leq 3y + 2 \)