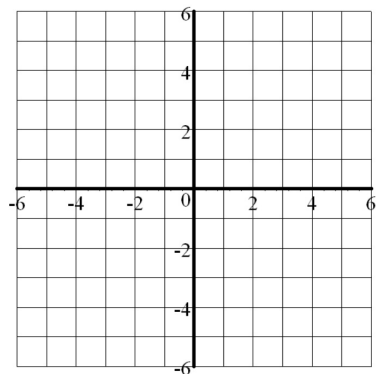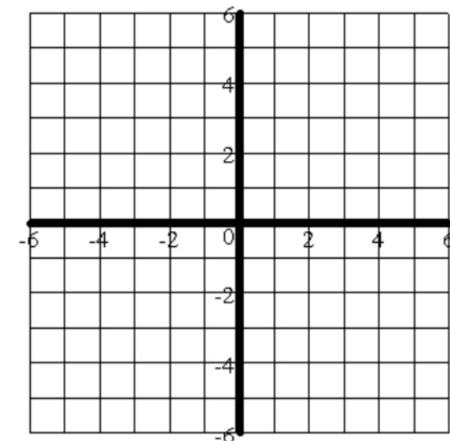Graph each system of inequalities. Shade the solution region with a highlighter or a colored pencil.

1. $y > -\frac{1}{2}x + 4$
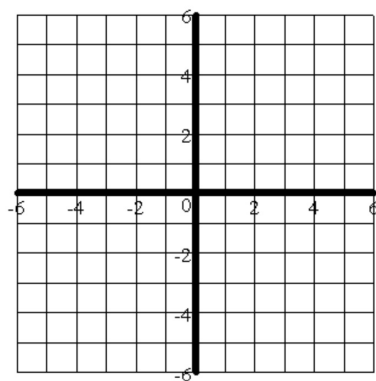 $4x - 8y \leq -24$

2. $x \geq 2$

    $y < \frac{1}{4}x$

3. $10x + 5y > 20$
    $12x + 6y \leq -12$

4. Model this graph with an inequality.