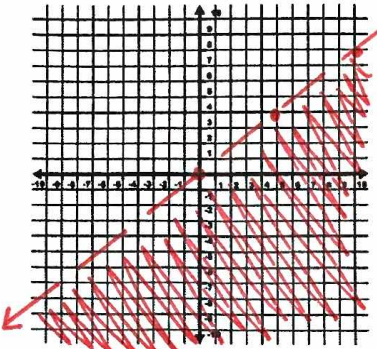
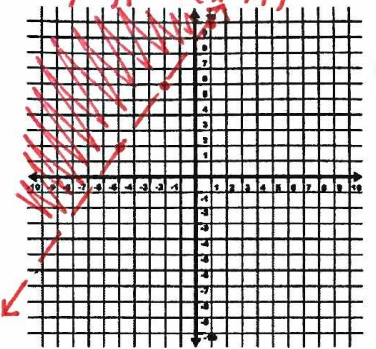
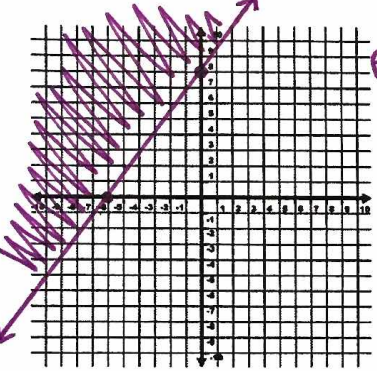
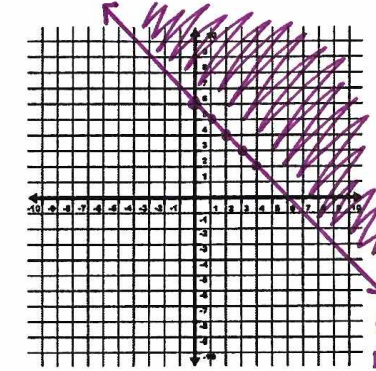
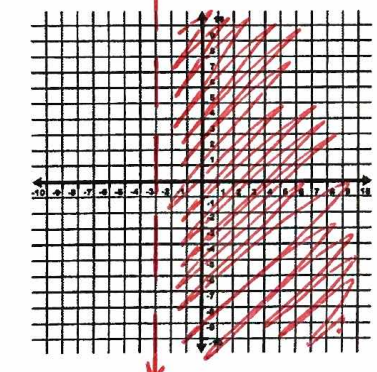
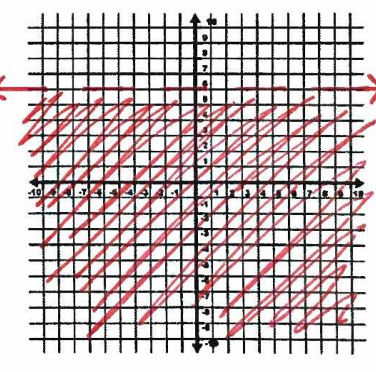
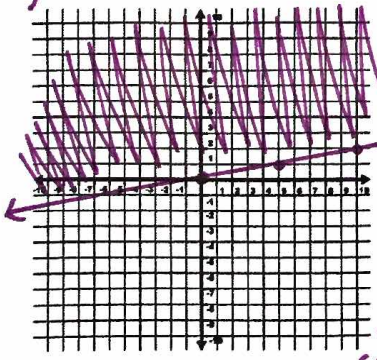
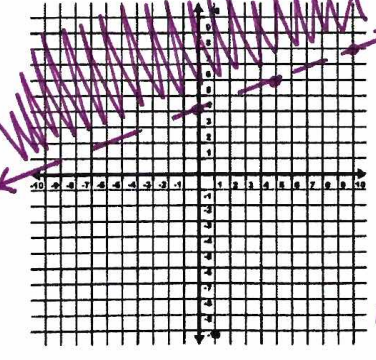


AA PREP: GRAPHING LINEAR INEQUALITIES—WORKSHEET #2

KEY

Graph each linear inequality. Shade the appropriate solution region.

| | |
|---|---|
| <p>1. Graph: $y < \frac{4}{5}x$</p>  <p>DOTTED LINE SHADE BELOW CHECK (0, -4) SHOULD BE TRUE $-4 < \frac{4}{5}(0)$ $-4 < 0$ TRUE! (0, -4) IS IN SOLUTION REGION</p> | <p>2. Graph: $y - 2 > \frac{4}{3}(x + 5)$</p>  <p>DOTTED LINE SHADE ABOVE CHECK (0, 0) SHOULD BE FALSE $0 - 2 > \frac{4}{3}(0 + 5)$ $-2 > \frac{20}{3}$ FALSE! (0, 0) IS <u>NOT</u> IN SOLUTION REGION</p> |
| <p>3. Graph: $4x - 3y \leq -24$</p>  <p>SOLID LINE INTERCEPTS (6, 0) AND (0, 8) CHECK (0, 0) $4(0) - 3(0) \leq -24$ $0 \leq -24$ FALSE! (0, 0) IS <u>NOT</u> IN SOLUTION REGION</p> | <p>4. Graph: $y \geq -x + 6$</p>  <p>SOLID LINE SHADE ABOVE CHECK (0, 0) SHOULD BE FALSE $0 \geq -(0) + 6$ $0 \geq 6$ FALSE! (0, 0) IS <u>NOT</u> IN SOLUTION REGION</p> |
| <p>5. Graph: $x > -3$</p>  <p>DOTTED LINE VERTICAL LINE SHADE RIGHT</p> | <p>6. Graph: $y < 6$</p>  <p>DOTTED LINE HORIZONTAL LINE SHADE BELOW</p> |
| <p>7. Graph: $x \leq 5y$</p> <p>ISOLATE y</p> <p>$\frac{x}{5} \leq \frac{1}{5}y$</p> <p>$y \geq \frac{x}{5}$</p> <p>$y \geq \frac{1}{5}x$</p>  <p>SOLID LINE SHADE ABOVE CHECK (0, 4) SHOULD BE TRUE $0 \leq 5(4)$ $0 \leq 20$ TRUE! (0, 4) IS IN SOLUTION REGION</p> | <p>8. Graph: $y > \frac{2}{5}x + 4$</p>  <p>DOTTED LINE SHADE ABOVE CHECK (0, 0) SHOULD BE FALSE $0 > \frac{2}{5}(0) + 4$ $0 > 4$ FALSE! (0, 0) IS <u>NOT</u> IN SOLUTION REGION</p> |