REVISED 2023 (simplified)

LESSON 6.7 **Practice**
For use with pages 404–412

Tell whether the ordered pair is a solution of the inequality.

1. $x + y > -9$; $(0, 0)$ (x, y)

$0+0 > -9$
$0 > -9$ (T)
SOLUTION

2. $x - y \geq 8$; $(14, 9)$ (x, y)

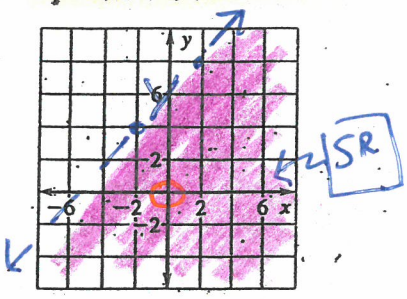
$14 - 9 \geq 8$
$5 \geq 8$ (F)
NOT A SOLUTION

3. $2x - y > 4$; $(-6, -15)$ (x, y)

$2(-6) - (-15) > 4$
$-12 + 15 > 4$
$3 > 4$ (F)
NOT A SOLUTION

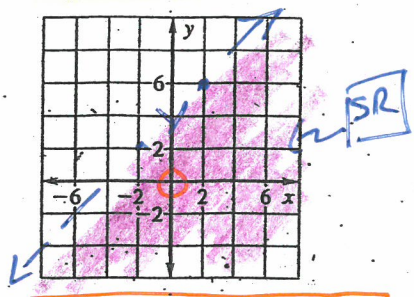
Graph the inequality.

10. $y < x + 6$ ← DOTTED LINES



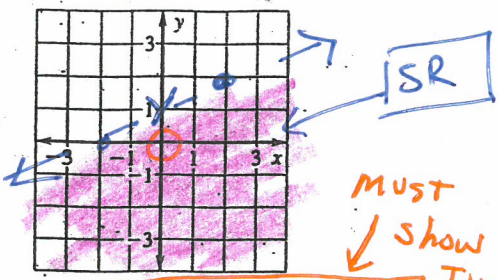
T(0,0) → $0 < 0 + 6$
$0 < 6$ (T)

11. $y < x + 4$



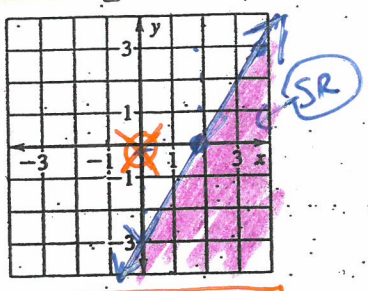
T(0,0) → $0 < 4$ (T)

12. $y < \frac{1}{2}x + 1$



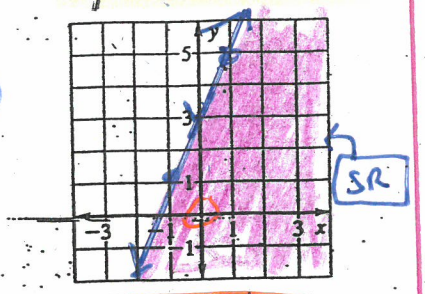
T(0,0) ← $0 <$ (T)
MUST show This step

13. $y \leq \frac{3}{2}x - 3$ ← SOLID LINES



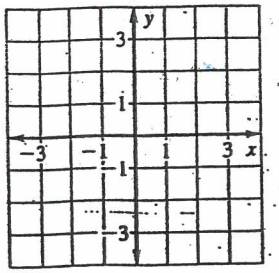
T(0,0)
→ $0 \leq -3$ (F)

14. $y \leq 2x + 3$



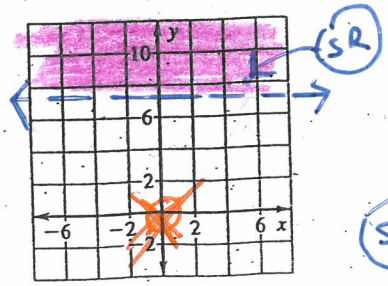
T(0,0)
→ $0 \leq 3$ (T)

15. PUT IN y=:



$-6y + 6 \geq -18x$

19. $y > 7$



T(0,0)
→ $0 > 7$ (F)

20. $x \leq -5$ → T(0,0) $0 \leq -5$ (F)