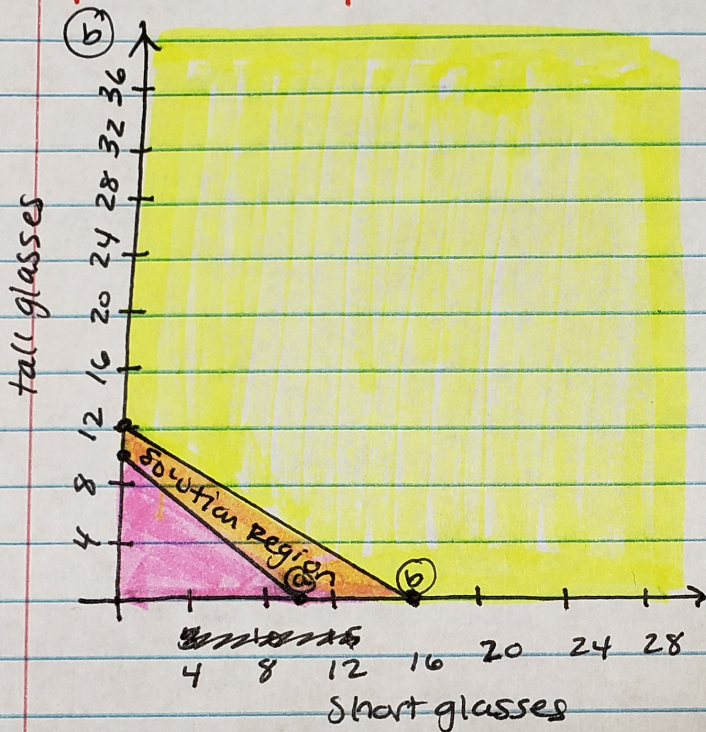


35. (a) $10 \leq x + y$
 $60 \geq 3x + 5y$

$x =$ short glasses
 $y =$ tall glasses

(a) $y \geq -x + 10$ (b) $y \leq -\frac{3}{5}x + 12$



36. $y \geq 2x - 1$ pt $(-1, -5)$

$-5 \geq 2(-1) - 1$

$-5 \geq -2 - 1$

$-5 \geq -3$

(X) Not true

$(-1, -5)$ Not a solution to inequality

37. (a) $20 = x + y$
 $148 = 6x + 8y$

$x =$ girl jerseys
 $y =$ boy jerseys

(b) $x = -y + 20$
 $148 = 6(-y + 20) + 8y$
 $148 = -6y + 120 + 8y$
 $148 = 2y + 120$

$2y = 28$

$y =$ 14 boys and 6 girls