

Substitute $x = -3$ and $y = 0$ into each inequality and simplify:

$$-3 - 2(0) < 4 \text{ or } -3 < 4 \text{ TRUE}$$

$$0 > -2(-3) - 5 \text{ or } 0 > 1 \text{ FALSE}$$

For an ordered pair to be a solution of a system, it must be a solution of both inequalities.