Properties 1 and 2 are identical to those of equality.

NOW: \( 6 > 2 \)

If I multiply each side by a \((-1)\):

\[ (-1)(6) \Rightarrow 2(-1) \]

\[ -6 < -2 \]

or

\[ -2 < 1 \]

becomes

\[ 2 > -1 \]