

$$(x+3)(x+2) = x^2 + 5x + 6 \geq x^2$$

$$\begin{aligned}(x+3)(x+2) &= x^2 + 5x + 6 \\ &\geq x^2\end{aligned}\tag{1}$$

$$\begin{aligned}(x+3)(x+2) &= x^2 + 5x + 6 \\ &\geq x^2\end{aligned}\tag{2}$$