

3.12
3

$$\frac{x!}{7!(x-7)!} - \frac{18x!}{6!(x-6)!} \leq \frac{55x!}{5!(x-5)!} \quad / \cdot \frac{7!(x-5)!}{x!}$$

$$(x-5)(x-6) - 18 \cdot 7(x-5) \leq 55 \cdot 7 \cdot 6$$

$$x^2 - 11x + 30 - 126x + 630 \leq 2310$$

$$x^2 - 137x - 1650 \leq 0$$

$$7 \leq x \leq 148$$

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$$\frac{137 \pm \sqrt{1592}}{2} =$$

148.13