1.2 When $\blacksquare = \blacksquare$.

Mssume equation holds true for n = m, so:

$$\sum_{i=1}^{m} \frac{2\overline{\imath} + 1}{\overline{\imath}^{2}(\overline{\imath} + 1)^{2}} = \frac{m^{2} + 2m}{(m+1)^{2}}$$

rove by induction on n that $(3n)! \ge \frac{1}{2} \times 120$ for all natural numbers $\mathbb N$ (where n! denotes the product of all natural numbers from 1 to