

$$\left[\sqrt{6 - \sqrt{6 - \sqrt{6 - (\dots)}}} \right] \times \left[\sqrt{6 + \sqrt{6 + \sqrt{6 + (\dots)}}} \right] =$$

6

This property holds for 12,20,30,
in general for $n(n+1)$

$$\left(\frac{1}{1} + \frac{\frac{1}{1}}{\frac{2}{1} - \frac{\frac{1}{1}}{\frac{3}{2} + \frac{\frac{1}{2}}{\frac{5}{3} - \frac{\frac{1}{3}}{\frac{8}{5} + \frac{\frac{1}{5}}{\dots}}}} \right)$$

**Double
Golden
Ratio**