

$$\frac{\pi}{2} = 1 + \frac{1 \times 2}{3 \times 5} + \frac{1 \times 2 \times 3}{3 \times 5 \times 7} + \frac{1 \times 2 \times 3 \times 4}{3 \times 5 \times 7 \times 9} + \dots + \frac{1 \times 2 \times \dots \times n}{3 \times 5 \times \dots \times (2n+1)}$$