

 $n!/(2!(n-2)!)$ 

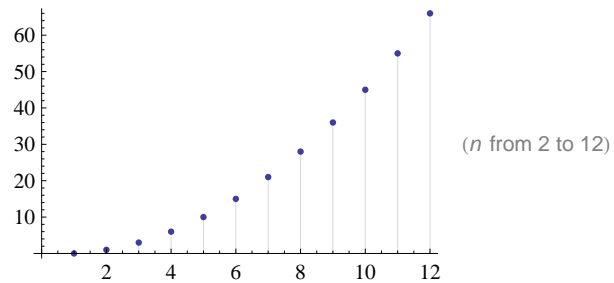
Input:

$$\frac{n!}{2!(n-2)!}$$

Result:

$$\frac{n!}{2(n-2)!}$$

Plots:



Alternate forms:

$$\frac{1}{2}(n-1)n$$

Wolfram|Alpha: $n!/(2!(n-2)!)$

Derivative:

$$\frac{d}{dn} \left(\frac{n!}{2!(n-2)!} \right) = \frac{(n-2)! \Gamma(n+1) \psi^{(0)}(n+1) - n! \Gamma(n-1) \psi^{(0)}(n-1)}{2((n-2)!)^2}$$