

Some formulas

(1) Degree of the 12-dimensional Grassmannian $G(3, 7) = 462$

$$\frac{\cancel{1} \cdot \cancel{2} \cdot \cancel{3} \cdot \cancel{4} \cdot \cancel{5} \cdot \cancel{6} \cdot 7 \cdot \cancel{8} \cdot \cancel{9} \cdot \cancel{10} \cdot 11 \cdot 12}{\cancel{1} \cdot \cancel{2} \cdot \cancel{3} \cdot 2 \cdot \cancel{3} \cdot \cancel{4} \cdot \cancel{3} \cdot \cancel{4} \cdot \cancel{5} \cdot \cancel{4} \cdot \cancel{5} \cdot \cancel{6}} = 7 \cdot 11 \cdot 6$$