

COMBINATORICS
SOLUTIONS

Problem 1

$$\binom{49}{6} - \binom{44}{6}$$

Problem 2

$$25 \cdot 24 \cdot 23 - 25 \cdot 22$$

Problem 3

$$8^5 \qquad 8 \cdot 7 \cdot 6 \cdot 5 \cdot 4$$

Problem 4

$$4,989,600$$

Problem 5

$$20 \cdot 20 = 400$$

Problem 6

$$65$$

Problem 7

$$62$$

Problem 8

$$\binom{14}{3}$$

Problem 9

$$12.600$$