Name : _____

## Permutations & Combinations

Evaluate the following.

1) $\dfrac{3P(8, 4)}{C(6, 6) \times 7!}$

2) $5P(13, 1) + 2!$

3) $P(4, 3) \times C(26, 25)$

4) $-2C(19, 17) - $

$C(15, 2) + \dfrac{18}{P(3, 1)}$

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7) $C(37, 36) - P(1$

$9C(11, 9) \times C(8, 8)$

10) $3! \, C(5, 5) + P(9, 3)$

11) $-C(68, 67)$

12) $\dfrac{P(7, 7)}{P(6, 4)}$