

Name : \_\_\_\_\_

## Permutations & Combinations

L2S3

Evaluate the following.

$$1) \frac{15}{C(15, 13) - C(16, 14)} + C(31, 29) \quad 2) \frac{P(1, 1) - P(5, 3)}{C(7, 5) - C(8, 4)}$$

$$3) \frac{P(7, 3) - C(60, 4)}{P(20, 1)}$$

$$5) \frac{-C(17, 14)}{P(6, 1)} \times \frac{P(10, 2)}{3!}$$

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**464**

$$3) \frac{P(7, 3) - C(60, 4)}{P(20, 1)}$$

**$\frac{1}{2}$**

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**$-\frac{35}{12}$  or  $-2\frac{11}{12}$**