

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

## Evaluating Permutations

L2S2

Evaluate the following.

$$1) \frac{P(28, 24)}{P(27, 23) \times P(14, 1)} + 5P(1, 1) \quad 2) \frac{P(55, 19)}{P(54, 18)} + 3! 4!$$

$$3) \frac{P(12, 6) \times P(18, 1)}{P(18, 1)} - \frac{P(36, 23)}{P(35, 22)}$$

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$$5) \frac{P(9, 4)}{P(8, 5) - P(8, 4)} + \frac{P(6, 6) + P(4, 2)}{P(5, 4) + P(3, 3)}$$

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$$\frac{189}{25} \text{ or } 7\frac{14}{25}$$

$$\frac{9}{7} \text{ or } 1\frac{2}{7}$$