

Permutations & Combinations

Evaluate the following.

$$1) \frac{P(8, 2)}{C(7, 1) \times C(9, 9)} - 5!$$

$$2) \frac{3! (C(24, 21) + P(4, 4))}{16P(5, 3)}$$

$$3) \frac{P(7, 7) \times P(9, 3)}{24P(9, 3)}$$

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$$\frac{P(9, 7)}{C(10, 5)}$$

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$$5) \frac{P(6, 4)}{C(36, 35)} + C(70, 68)$$

$$\frac{P(3, 1)}{C(70, 68)}$$

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Evaluate the following.

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$$2) \frac{3! (C(24, 21) + P(4, 4))}{16P(5, 3)}$$

-112

$$3) - \frac{P(7, 7) \times P(9, 3)}{24P(9, 3)}$$

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$$\frac{P(9, 7)}{C(10, 5)}$$

$-\frac{5}{6}$

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$$5) \frac{P(6, 4)}{C(36, 35)} + C(70, 68)$$

$$\frac{P(3, 1)}{P(3, 1)}$$

1,663

$-\frac{7}{37}$