

Solve the Equations

Solve.

1) $5! P(8, r) = 120P(8, r + 1)$

2) $14! \times P(3, 1) = 3! \times P(14, 3r)$

3) $\frac{(5r + 4)!}{(4r + 3)!} =$

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$10P(9n - 1, 6)$

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5) $P(7n, 1) =$

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$(8n - 1) P(6, 3)$

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7) $\frac{3}{P(n, 5)} = \frac{4}{P(8, 6)}$

8) $\frac{P(11, 4)}{P(12, 2r - 7)} = \frac{1}{12}$

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1) $5! P(8, r) = 120P(8, r + 1)$

2) $14! \times P(3, 1) = 3! \times P(14, 3r)$

$r = 7$

$r = 4$

3) $\frac{(5r + 4)!}{(4r + 3)!} =$

$10P(9n - 1, 6)$

$r = 3$

5) $P(7n, 1) =$

$(8n - 1) P(6, 3)$

$n = 4$

7) $\frac{3}{P(n, 5)} = \frac{4}{P(8, 6)}$

8) $\frac{P(11, 4)}{P(12, 2r - 7)} = \frac{1}{12}$

$n = 9$

$r = 6$

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