

Solve the Equations

Solve.

1) $\frac{P(6n, 3)}{C(10, 8) - 3} = 6n - 2$

2) $C(4, r) \times (r - 2)! = 2P(3, r - 1)$

3) $5C(9n, 5) -$

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) = (2n + 4)!

5) $\frac{1}{C(9, 3r - 1)}$

$\times (8 - 2r)! = 40r$

7) $\frac{P(6, 3)}{24} - C(n + 1, n) = -6$

8) $\frac{(4r)!}{3!} = \frac{8P(4r, 2)}{C(8, 7)}$

Solve the Equations

Solve.

1) $\frac{P(6n, 3)}{C(10, 8) - 3} = 6n - 2$

2) $C(4, r) \times (r - 2)! = 2P(3, r - 1)$

$n = \frac{7}{6} \text{ or } n = 1\frac{1}{6}$

$r = 2$

3) $5C(9n, 5) -$

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$) = (2n + 4)!$

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$n = \frac{5}{9}$

5) $\frac{1}{C(9, 3r - 1)}$

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$\times (8 - 2r)! = 40r$

$r = 1$

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7) $\frac{P(6, 3)}{24} - C(n + 1, n) = -6$

8) $\frac{(4r)!}{3!} = \frac{8P(4r, 2)}{C(8, 7)}$

$n = 10$

$r = \frac{5}{4} \text{ or } r = 1\frac{1}{4}$