

Name : _____

Solve the Equations

L2S3

Solve.

1) $\frac{1}{C(15n, 1)} = \frac{102}{C(18, 4)}$

2) $30C(n, n - 7) = \frac{n! (12n - 1)!}{(12n)! (n - 7)!}$

3) $33C(20, r) = (2$

PREVIEW

$$= \frac{C(9, 3r - 3) \times 11!}{9r^2 - 9r + 2}$$

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5) $C(3n, n + 1) =$

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$5, 4) = 5 + C(6, 9n)$

7) $C(r, 5) \times C(r, 4) = C(r, r - 4)$

8) $C(6r, 6r - 1) = 12 + C(4, 2)$

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Solve the Equations

Solve.

1) $\frac{1}{C(15n, 1)} = \frac{102}{C(18, 4)}$

$n = 2$

2) $30C(n, n-7) = \frac{n!(12n-1)!}{(12n)!(n-7)!}$

$n = 14$

3) $33C(20, r) = (2$

PREVIEW

$= \frac{C(9, 3r-3) \times 11!}{9r^2 - 9r + 2}$

$r = 8$

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5) $C(3n, n+1) =$

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$C(5, 4) = 5 + C(6, 9n)$

$n = 14$

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7) $C(r, 5) \times C(r, 4) = C(r, r-4)$

$r = 5$

8) $C(6r, 6r-1) = 12 + C(4, 2)$

$r = 3$