

Name : _____

Solve the Equations

L2S1

Solve.

1) $C(n, 3) = C(n, n-2)$

2) $\frac{C(12, 2)}{C(3n, 1)} = C(12, 10)$

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

$C(n-4, 4) = 30C(n, 8)$

5) $\frac{5! C(7, 2)}{r! \times 21} = C(5)$

$\frac{3!}{! \times (3-2r)!}$

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7) $C(15n, 1) + 500 = C(15, 3) + 270$

8) $r! (C(6, r) - C(7, r+1)) = 0$

Name : _____

Answer key

Solve the Equations

L2S1

Solve.

1) $C(n, 3) = C(n, n-2)$

$n = 5$

2) $\frac{C(12, 2)}{C(3n, 1)} = C(12, 10)$

$n = \frac{1}{3}$

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

$r = 2$

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$C(n - 4, 4) = 30C(n, 8)$

5) $\frac{5! C(7, 2)}{r! \times 21} = C(5, r)$

$r = 4; r = 5$

$\frac{3!}{r! \times (3 - 2r)!}$

7) $C(15n, 1) + 500 = C(15, 3) + 270$

$n = 15$

8) $r! (C(6, r) - C(7, r + 1)) = 0$

$r = 6$