

Name : _____

Solve the Equations

L2S3

Solve.

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

$$2) \frac{P(4r, 4)}{4 + C(9, 7)} = \frac{6C(4r, 5)}{2!}$$

$$3) C(10, 9) - 9 = \frac{1}{2}P(10, 2)$$

$$4) C(15, 13) \times C(2n, 7)$$

$$5) -P(11, 2r - 5) + P(11, 2r - 4)$$

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

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Answer key

Solve the Equations

L2S3

Solve.

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

2) $\frac{P(4r, 4)}{4 + C(9, 7)} = \frac{6C(4r, 5)}{2!}$

$n = \frac{4}{3} \text{ or } 1\frac{1}{3}$

3) $C(10, 9) - 9 =$

$C(15, 13) \times C(2n, 7)$

$r = 7$

5) $-P(11, 2r - 5) +$

$P(8, 2) = \frac{P(n + 3, 3)}{P(n + 1, 2)}$

$r = 5$

$n = 3; n = 2$

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