

Name : \_\_\_\_\_

## Solve the Equations

L1S3

Solve.

1)  $-P(2r, 2r - 1) - 17 = -41$

2)  $\frac{6}{P(9n, 1)} = \frac{2!}{30}$

3)  $P(n + 2, 3) -$

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$- 207) = 57$

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5)  $P(9, 2r) + 3!$

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$= 10!$

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

8)  $\frac{3P(n, 6)}{720} = 21$

**Solve the Equations**

Solve.

1)  $-P(2r, 2r - 1) - 17 = -41$

**$r = 2$**

2)  $\frac{6}{P(9n, 1)} = \frac{2!}{30}$

**$n = 10$**

3)  $P(n + 2, 3) - P(n + 2, 2) - P(n + 2, 1) - P(n + 2, 0) - 207 = 57$

**$n = 2$**

5)  $P(9, 2r) + 3! - P(9, 2r - 1) - 3! = 10!$

**$r = 1$**

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

**$r = 1$**

8)  $\frac{3P(n, 6)}{720} = 21$

**$n = 7$**

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