

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

## Solving the Equations

L2S3

Solve.

1)  $34(n^2 - 3)! = (n^2 - 2)!$

2)  $\frac{10(n!)^2}{(n-1)!(n+1)!} = 5$

3)  $\frac{(2n)!}{54} = ($

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5)  $\frac{(n+4)!}{2^{n-1}} =$

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$50)! = 88(3n - 3)!$

## Solving the Equations

Solve.

1)  $34(n^2 - 3)! = (n^2 - 2)!$

2)  $\frac{10(n!)^2}{(n-1)!(n+1)!} = 5$

$n = \pm 6$

3)  $\frac{(2n)!}{54} = ($

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$n = 3$

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5)  $\frac{(n+4)!}{2^{n-1}} =$

$50)! = 88(3n - 3)!$

$n = 4$

$n = 30$