

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) $\frac{(2n)!}{54} = (\quad) = 72$

5) $\frac{(n+4)!}{2^{n-1}} = (\quad) = 88(3n-3)!$

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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) $\frac{(2n)!}{54} = (n-1)! = 72$

$n = 3$

5) $\frac{(n+4)!}{2^{n-1}} = (n-5)! = 88(3n-3)!$

$n = 4$

$n = 30$

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