

## Simplifying the Expressions

Simplify.

1) 
$$\frac{((7n + 5)!)^3}{((7n + 4)!)^3}$$

2) 
$$\frac{(4n + 1)!}{(4n)!} + \frac{(4n - 2)!}{(4n - 3)!}$$

3) 
$$\frac{(4 + 3)}{(3n + 3)} (3$$

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-  $(5n^3 - 3)$

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5) 
$$\frac{(n!)^3}{(n - 1)! (n$$

## Simplifying the Expressions

Simplify.

1)  $\frac{((7n + 5)!)^3}{((7n + 4)!)^3}$

2)  $\frac{(4n + 1)!}{(4n)!} + \frac{(4n - 2)!}{(4n - 3)!}$

3)  $\frac{(4 + 3)}{(3n + 3)(3n + 4)}$

-  $(5n^3 - 3)$

5)  $\frac{(n!)^3}{(n - 1)!(n - 2)!}$

$(7n + 5)^3$

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$3n + 4$

$n^2(n - 1)$

$8n$