

## Simplifying the Expressions

Simplify.

$$1) \frac{(3n)! (n + 1)!}{(n - 0)! (3n - 1)!}$$

$$2) \frac{(5n - 7)!}{(5n - 6)!} + \frac{(5n + 5)}{(5n - 3)!}$$

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

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$$5) \frac{((7n + 6)!)}{((7n + 5)!)} + (n + 4!)$$

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 $3n^2(n + 1)$ 

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 $n - 118$  $(7n + 6)^4$  $3(n + 8)$