

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

$$+ (n + 4)!$$

## Simplifying the Expressions

Simplify.

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

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

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

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

 $3n^2(n+1)!$  $n-118$  $(7n+6)^4$ 

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 $3(n+8)$