

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

## Simplifying the Expressions

Sheet 5

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

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