

Simplifying the Expressions

Simplify.

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

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

3) $\frac{(4 + 3)^3}{(3n + 3)^3} - (5n^3 - 3)$

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

PREVIEW

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Simplifying the Expressions

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

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

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$$- (5n^3 - 3)$$

$$3n + 4$$

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

$$n^2(n - 1)$$

$$8n$$