Brackets: Expanding

Example: $\left(x+1\right)\left(x+2\right)\left(x+3\right)$

Questions

1. Expand and simplify

$$\left(x+5\right)\left(x-2\right)\left(x+1\right)$$

2. Expand and simplify:

$$2\left(x-3\right)\left(x-4\right)$$

3. Expand and simplify:

$$\left(2x-1\right)^{3}$$

Extension





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Brackets: Factorising

Examples:

1. $x^{2}-5x-14$

2. $2x^{2}+5x-12$

3. $4x^{2}-9 $

4. $x^{3}-x$

5. $x^{3}+3x^{2}+2x$

Test your understanding: Factorise completely

1. $6x^{2}+x-2$

2. $x^{3}-7x^{2}+12x$

3. $x^{4}-1$

4. $x^{3}-1$

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