Concept B2104) Further Expanding Brackets PART I

When expanding brackets becomes even more difficult, don't panic!

Just correctly apply the distributive law.

Example

Expand $(a+b+c)(3a-2b+c)$.

Try not to skip over a term when you are expanding.

Try It Yourself!

Expand the following.

i) $(3x-y+2z)(2x+y-z)$

ii) $(x + 2y - z)^2$

iii) $(6a - 2b + 3c)^2$

ANSWERS (Try It Yourself!)

i) $6x^2 - y^2 - 2z^2 + xy + xz + 3yz$

ii) $x^2 + 4y^2 + z^2 + 4xy - 2xz - 4yz$

iii) $36a^2 + 4b^2 + 9c^2 - 24ab + 36ac - 12bc$