EXPANDING BRACKETS

To expand brackets, we use the distributive law:

$$a(b+c) = a \times b + a \times c$$
$$= ab + ac$$

$$a(b-c) = a \times b - a \times c$$
$$= ab - ac$$

examples:

$$4(2x+5) = 8x + 20$$

$$3(5-2y) = 15 - 6y$$

$$4x(2x-y) = 4x(2x) - 4x(y)$$
$$= 8x^2 - 4xy$$

$$3(2b+5) + 3b = 3(2b) + 3(5) + 3b$$
$$= 6b + 15 + 3b$$
$$= 9b + 15$$