

## Expanding Brackets Revision

<b>(a)</b>	<b>(b)</b>	<b>(c)</b>	<b>(d)</b>
Expand $7(x - 3)$  $7x - 21$	Expand $x(5 + 2x)$  $5x + 2x^2$	Expand $5y(3y - 1)$  $15y^2 - 5y$	Expand $-6(2x + 3)$  $-12x - 18$
<b>(e)</b>	<b>(f)</b>	<b>(g)</b>	<b>(h)</b>
Expand $x^2(9 - 2x)$  $9x^2 - 2x^3$	Expand and simplify $5(x + 3) + 2(x - 4)$  $7x + 7$	Expand and simplify $4(2x - 3) - 2(x - 1)$  $6x - 10$	Expand and simplify $7 - 3(4x - 1)$  $-12x + 10$
<b>(i)</b>	<b>(j)</b>	<b>(k)</b>	<b>(l)</b>
Expand and simplify $(x + 3)(x + 7)$  $x^2 + 10x + 21$	Expand and simplify $(x - 5)(x + 1)$  $x^2 - 4x - 5$	Expand and simplify $(y - 8)(y - 7)$  $y^2 - 15y + 56$	Expand and simplify $(5x + 1)(x - 4)$  $5x^2 - 19x - 4$
<b>(m)</b>	<b>(n)</b>	<b>(o)</b>	<b>(p)</b>
Expand and simplify $(2x - 3y)(x - 2y)$  $2x^2 - 7xy + 6y^2$	Expand and simplify $(x + 3)^3$  $x^3 + 9x^2 + 27x + 27$	Expand and simplify $(2x + 3)(x - 1)(x + 5)$  $2x^3 + 11x^2 + 2x - 15$	$(3x - 1)(x + a)^2$ $\equiv 3x^3 - 19x^2 + bx - 9$ Find the values of $a$ and $b$ .  $a = -3, b = 33$