Fill in the Blanks — Expanding Three Brackets

Question	Multiply first two brackets			Simplify first two brackets	Multiply by third bracket				Simplified Answer
$(x+2)(x+1)(x+5)$	$\times$	x	$+2$	x^2+3x+2	$\times$	x^2	$+3x$	$+2$	$x^3+8x^2+17x+10$
	x	x^2	$+2x$		x	x^3	$+3x^2$	$+2x$	
	$+1$	$+x$	$+2$		$+5$	$+5x^2$	$+15x$	$+10$	
$(y+4)(y-2)(y+3)$	$\times$	y	$+4$	y^2+2y-8	$\times$	y^2	$+2y$	-8	$y^3+5y^2-2y-24$
	y	y^2	$+4y$		y	y^3	$+2y^2$	$-8y$	
	-2	$-2y$	-8		$+3$	$+3y^2$	$+6y$	-24	
$(b-3)(b-5)(b-6)$	$\times$	b	-3	$b^2-8b+15$	$\times$	b^2	$-8b$	$+15$	$b^3-14b^2-33b-90$
	b	b^2	$-3b$		b	b^3	$-8b^2$	$+15b$	
	-5	$-5b$	$+15$		-6	$-6b^2$	$-48b$	-90	
$(2x+3)(x-4)(x+2)$	$\times$	$2x$	$+3$	$2x^2-5x-12$	$\times$	$2x^2$	$-5x$	-12	$2x^3-x^2-22x-24$
	x	$2x^2$	$+3x$		x	$2x^2$	$-5x^2$	$-12x$	
	-4	$-8x$	-12		$+2$	$+4x^2$	$-10x$	-24	
$(2a-1)(3a+1)(a-2)$	$\times$	$2a$	-1	$6a^2-a-1$	$\times$	$6a^2$	$-a$	-1	$6a^3-13a^2+a+2$
	$3a$	$6a^2$	$-3a$		a	$6a^3$	$-a^2$	$-a$	
	$+1$	$+2a$	-1		-2	$-12a^2$	$+2a$	$+2$	