

5A

4a	$2(x+5)$ $2x+10$	4o	$-5x(2-2x)$ $-10x+10x^2$		$5x^2+2x+x^2-5x$ $6x^2-3x$
		4p	$-4x(1-4x)$ $-4x+16x^2$	5c	$x(4x-3)-2x(x-5)$ $4x^2-3x-2x^2+10x$ $2x^2+7x$
4b	$3(x-4)$ $3x-12$	4q	$\frac{2}{5}(10x+4)$ $4x+\frac{8}{5}$	5d	$3x(2x+4)-x(5-2x)$ $6x^2+12x-5x+2x^2$ $8x^2+7x$
4c	$-5(x+3)$ $-5x-15$	4r	$\frac{3}{4}(8x-5)$ $6x-\frac{15}{4}$	5e	$4x(2x-1)+2x(1-3x)$ $8x^2-4x+2x-6x^2$ $2x^2-2x$
4d	$-4(x-2)$ $-4x+8$	4s	$-\frac{1}{3}(6x+1)$ $-2x-\frac{1}{3}$	5f	$2x(2-3x)-3x(2x-7)$ $4x-6x^2-6x^2+21x$ $25x-12x^2$
4e	$3(2x-1)$ $6x-3$	4t	$-\frac{1}{2}(4x-3)$ $-2x+\frac{3}{2}$	6a	$(x+2)(x+8)$ $x^2+8x+2x+16$ $x^2+10x+16$
4f	$4(3x+1)$ $12x+4$	4u	$-\frac{3}{8}(24x-1)$ $-9+\frac{3}{8}$	6b	$(x+3)(x+4)$ $x^2+4x+3x+12$ $x^2+7x+12$
4g	$-2(5x-3)$ $-10x+6$	4v	$-\frac{2}{9}(9x+7)$ $-2x-\frac{14}{9}$	6c	$(x+7)(x+5)$ $x^2+5x+7x+35$ $x^2+12x+35$
4h	$-5(4x+3)$ $-20x-15$	4w	$\frac{3x}{4}(3x+8)$ $\frac{9}{4}x^2+6x$	6d	$(x+8)(x-3)$ $x^2-3x+8x-24$ $x^2+5x-24$
4i	$x(2x+5)$ $2x^2+5x$	4x	$\frac{2x}{5}(7-3x)$ $\frac{14}{5}x-\frac{6}{5}x^2$	6e	$(x+6)(x-5)$ $x^2-5x+6x-30$ x^2+x-30
4j	$x(3x-1)$ $3x^2-x$	5a	$x(3x-1)+x(4-x)$ $3x^2-x+4x-x^2$ $2x^2+3x$	6f	$(x-2)(x+3)$ $x^2+3x-2x-6$ x^2+x-6
4k	$2x(1-x)$ $2x-2x^2$	5b	$x(5x+2)+x(x-5)$	6g	$(x-7)(x+3)$ $x^2+3x-7x-21$
4l	$3x(2-x)$ $6x-3x^2$				
4m	$-2x(3x+2)$ $-6x^2-4x$				
4n	$-3x(6x-2)$ $-18x^2+6x$				

6h	$x^2 - 4x - 21$	6q	$x^2 - 16$	7f	$(2x + 5)(3x - 5)$
	$(x - 4)(x - 6)$		$(x + 9)(x - 9)$		$6x^2 - 10x + 15x - 25$
	$x^2 - 6x - 4x + 24$		$x^2 - 9x + 9x - 81$		$6x^2 + 5x - 25$
6i	$x^2 - 10x + 24$	6r	$x^2 - 81$	7g	$(4x - 5)(4x + 5)$
	$(x - 8)(x - 5)$		$(2x - 3)(2x + 3)$		$16x^2 + 20x - 20x - 25$
	$x^2 - 5x - 8x + 40$		$4x^2 + 6x - 6x - 9$		$16x^2 - 25$
6j	$x^2 - 13x + 40$	6s	$4x^2 - 9$	7h	$(2x - 9)(2x + 9)$
	$(x + 5)^2$		$(3x + 4)(3x - 4)$		$4x^2 + 18x - 18x - 81$
	$(x + 5)(x + 5)$		$9x^2 - 12x + 12x - 16$		$4x^2 - 81$
6k	$x^2 + 5x + 5x + 25$	6t	$9x^2 - 16$	7i	$(5x - 7)(5x + 7)$
	$x^2 + 10x + 25$		$(4x - 5)(4x + 5)$		$25x^2 + 35x - 35x - 49$
	$(x + 7)^2$		$16x^2 + 20x - 20x - 25$		$25x^2 - 49$
6l	$(x + 7)(x + 7)$	6u	$16x^2 - 25$	7j	$(7x - 3)(2x - 4)$
	$x^2 + 7x + 7x + 49$		$(8x - 7)(8x + 7)$		$14x^2 - 28x - 6x - 12$
	$x^2 + 14x + 49$		$64x^2 + 56x - 56x - 49$		$14x^2 - 34x - 12$
6m	$(x + 6)^2$	7a	$64x^2 - 49$	7k	$(5x - 3)(5x - 6)$
	$(x + 6)(x + 6)$		$(2x + 1)(3x + 5)$		$25x^2 - 30x - 10x + 18$
	$x^2 + 6x + 6x + 36$		$6x^2 + 10x + 3x + 5$		$25x^2 - 40x + 18$
6n	$x^2 + 12x + 36$	7b	$6x^2 + 13x + 5$	7l	$(7x - 2)(8x - 2)$
	$(x - 3)^2$		$(4x + 5)(3x + 2)$		$56x^2 - 14x - 16x + 4$
	$(x - 3)(x - 3)$		$12x^2 + 8x + 15x + 10$		$56x^2 - 30x + 4$
6o	$x^2 - 3x - 3x + 9$	7c	$12x^2 + 23x + 10$	7m	$(2x + 5)^2$
	$x^2 - 6x + 9$		$(5x + 3)(2x + 7)$		$(2x + 5)(2x + 5)$
	$(x - 8)^2$		$10x^2 + 35x + 6x + 21$		$4x^2 + 10x + 10x + 25$
6p	$(x - 8)(x - 8)$	7d	$10x^2 + 41x + 21$	7n	$4x^2 + 20x + 25$
	$x^2 - 8x - 8x + 64$		$(3x + 2)(3x - 5)$		$(5x + 6)^2$
	$x^2 - 16x + 64$		$9x^2 - 15x + 6x - 10$		$(5x + 6)(5x + 6)$
6q	$(x - 10)^2$	7e	$9x^2 - 9x - 10$	7o	$25x^2 + 30x + 30x + 36$
	$(x - 10)(x - 10)$		$(5x + 3)(4x - 2)$		$25x^2 + 60x + 36$
	$x^2 - 10x - 10x + 100$		$20x^2 - 10x + 12x - 6$		$(7x - 1)^2$
6r	$x^2 - 20x + 100$	7f	$20x^2 + 2x - 6$	8a	$(7x - 1)(7x - 1)$
	$(x + 4)(x - 4)$				$49x^2 + 7x - 7x - 1$
	$x^2 - 4x + 4x - 16$				$49x^2 - 1$

8b		$-3a^2 + 21a - 6a + 42$		$-6x^2 - 10x + 56$
	3	$-3a^2 + 15x + 42$	9p	$2(x+3)^2$
8c				$2(x+3)(x+3)$
	3	$-5(a+2)(a-8)$		$2(x^2+3x+3x+9)$
8d		$-5(a^2-8a+2a-16)$		$2x^2+6x+6x+18$
	8	$-5a^2+40a-10a+80$		$2x^2+12x+18$
8e		$-5a^2+30a+80$	9q	$4(m+5)^2$
	1			$4(m+5)(m+5)$
8f				$4(m^2+5m+5m+25)$
	2	$4(a-3)(a-6)$		$4m^2+20m+20m+100$
9a		$4(a^2-6a-3a+18)$		$4m^2+40m+100$
	$2(x+3)(x+4)$	$4a^2-24a-12a+54$		
	$2(x^2+4x+3x+12)$	$4a^2-36a+54$	9j	$2(a-7)^2$
	$2x^2+8x+6x+24$			$2(a-7)(a-7)$
	$2x^2+14x+24$	$3(y-4)(y-5)$		$2(a^2-7a-7a+49)$
9b		$3(y^2-5y-4y+20)$		$2a^2-14a-14a+49$
	$3(x+2)(x+7)$	$3y^2-15y-12y+60$		$2a^2-28a+49$
	$3(x^2+7x+2x+14)$	$3y^2-27y+60$	9k	
	$3x^2+21x+6x+54$			$-3(y-5)^2$
	$3x^2+27x+54$	$-2(y-3)(y-8)$		$-3(y-5)(y-5)$
9c		$-2(y^2-8y-3y+24)$	9s	$-3(y^2-5y-5y+25)$
	$-2(x+8)(x+2)$	$-2y^2+16y+6y-48$		$-3y^2+15y+15y-75$
	$-2(x^2+2x+8x+16)$	$-2y^2+22y-48$		$-3y^2+30y+75$
	$-2x^2-4x-16x-32$		9l	
	$-2x^2-20x-32$	$-6(y-4)(y-3)$		$3(2b-1)^2$
9d		$-6(y^2-3y-4y+12)$		$3(2b-1)(2b-1)$
	$-4(x+9)(x+2)$	$-6y^2+18y+24y-72$	9t	$3(4b^2-2b-2b+1)$
	$-4(x^2+2x+9x+18)$	$-6y^2+42y-72$		$12b^2-6b-6b+3$
	$-4x^2-8x-36x-72$			$12b^2-12b+3$
	$-4x^2-44x-72$	9m		
9e		$3(2x+3)(2x+5)$		$-3(2y-6)^2$
	$5(x-3)(x+4)$	$3(4x^2+10x+6x+15)$		$-3(2y-6)(2y-6)$
	$5(x^2+4x-3x-12)$	$12x^2+30x+18x+45$	9u	$-3(4y^2-12y-12y+36)$
	$5x^2+20x-15x-72$	$12x^2+48x+45$		$-12y^2+36y+36y+36$
	$5x^2+5x-72$			$-12y^2+72$
9f		$6(3x-4)(x+2)$	10a	$(x+1)(x+3)+(x+2)(x+4)$
	$3(x+5)(x-3)$	$6(3x^2+6x-4x-8)$		$(x^2+3x+x+3)+(x^2+4x+2x+8)$
	$3(x^2-3x+5x-15)$	$18x^2+36x-24x-48$		$x^2+3x+x+3+x^2+4x+2x+8$
	$3x^2-9x+15x-15$	$18x^2+12x-48$		$2x^2+10x+11$
	$3x^2+6x-15$	9o		
9g		$-2(x+4)(3x-7)$		
	$-3(a+2)(a-7)$	$-2(3x^2-7x+12x-28)$		
	$-3(a^2-7a+2a-14)$	$-6x^2+14x-24x+56$		

10b	10i		
$(x+8)(x+3) + (x+4)(x+5)$	$3 - (2x-9)^2$		$6 \times 100 + 6 \times 3$
$(x^2+3x+8x+24) + (x^2+5x+4x+20)$	$3 - (2x-9)(2x-9)$		$600 + 18$
$x^2 + 3x + 8x + 24 + x^2 + 5x + 4x + 20$	$3 - (4x^2 - 18x - 18x + 81)$	13b	618
$2x^2 + 20x + 44$	$3 - 4x^2 + 18x + 18x - 81$		4×55
	$-4x^2 + 36x - 78$		$4 \times 50 + 4 \times 5$
10c	10j		200 + 20
$(y+3)(y-1) + (y-2)(y-4)$	$14 - (5x+3)^2$		220
$(y^2 - y + 3y - 3) + (y^2 - 4y - 2y + 8)$	$14 - (5x+3)(5x+3)$	13c	9×63
$y^2 - y + 3y - 3 + y^2 - 4y - 2y + 8$	$14 - (25x^2 + 15x + 15x + 9)$		$9 \times 60 + 9 \times 3$
$2y^2 - 6y + 5$	$14 - 25x^2 - 15x - 15x - 9$		540 + 27
	$-25x^2 - 30x + 5$		567
10d	11a	13d	
$(y-7)(y+4) + (y+5)(y-3)$	$(x-6)(x-6)$		8×208
$(y^2+4y-7y-28) + (y^2-3y+5y-15)$	$x^2 - 6x - 6x + 36$		$8 \times 200 + 8 \times 8$
$y^2 + 4y - 7y - 28 + y^2 - 3y + 5y - 15$	$x^2 - 12x + 36$		1600 + 64
$2y^2 - y - 43$	$(x+20)(x-10)$	13e	1664
10e	$x^2 - 10x + 20x - 200$		7×198
$(2a+3)(a-5) - (a+6)(2a+5)$	$x^2 + 10x - 200$		$7 \times 100 + 7 \times 90 + 7 \times 8$
$(2a^2 - 7a - 15) - (2a^2 + 17a + 30)$	$(a+b)(a-b)$	13f	700 + 630 + 56
$2a^2 - 7a - 15 - 2a^2 - 17a - 30$	$a^2 - ab + ba - b^2$		1386
$-24a - 45$	$a^2 - b^2$		3×297
10f	12b		$3 \times 200 + 3 \times 90 + 3 \times 7$
$(4b+8)(b+5) - (3b-5)(b-7)$	$(a+b)^2$		600 + 270 + 21
$(4b^2+20b+8b+40) - (3b^2-21b-5b+35)$	$(a+b)(a+b)$	13g	891
$4b^2 + 20b + 8b + 40 - 3b^2 + 21b + 5b - 35$	$a^2 + ab + ba + b^2$		8×495
$b^2 + 54b + 5$	$a^2 + 2ab + b^2$		$8 \times 400 + 8 \times 90 + 8 \times 5$
10g	12c		3200 + 720 + 40
$(x+5)^2 - 7$	$(a-b)^2$		3960
$(x+5)(x+5) - 7$	$(a-b)(a-b)$	13h	5×696
$(x^2 + 5x + 5x + 25) - 7$	$a^2 - ab - ba + b^2$		$5 \times 600 + 5 \times 90 + 5 \times 6$
$x^2 + 5x + 5x + 25 - 7$	$a^2 - 2ab + b^2$		3000 + 450 + 30
$x^2 + 10x + 18$	$(a+b)^2 - (a-b)^2$		3480
10h	12d	14a	
$(x-7)^2 - 9$	$(a+b)(a+b) - (a-b)(a-b)$		$-x(x-7)$
$(x-7)(x-7) - 9$	$(a^2 + 2ab + b^2) - (a^2 - 2ab + b^2)$		$-x^2 + 7x$
$(x^2 - 7x - 7x + 49) - 9$	$a^2 + 2ab + b^2 - a^2 + 2ab - b^2$	14b	$3a - 7(4-a)$
$x^2 - 7x - 7x + 49 - 9$	$4ab$		$3a - 28 + 7a$
$x^2 - 14x + 40$	13a		
	6×103		

	$10a - 28$	15e	$(x+6)(2x-3)(x-5)$
14c	$(2x+3)^2$		$(2x^2-3x+12x-18)(x-5)$
	$(2x+3)(2x+3)$		$(2x^2+9x-18)(x-5)$
	$4x^2+6x+6x+9$		$2x^2(x-5)+9x(x-5)-18(x-5)$
	$4x^2+12x+9$		$2x^3-10x^2+9x^2-45x-18x+90$
14d			$2x^2-x^2-63x+90$
	$(x+2)^2-(x+2)(x-2)$	15f	$(2x-3)(x-4)(3x-1)$
	$(x+2)(x+2)-(x+2)(x-2)$		$(2x^2-8x-3x+12)(3x-1)$
	$(x^2+4x+4)-(x^2-4)$		$(2x^2-11x+12)(3x-1)$
	$x^2+4x+4-x^2+4$		$2x^2(3x-1)-11x(3x-1)+12(3x-1)$
	$4x+8$		$6x^3-2x^2-33x^2+11x+36x-12$
15a			$6x^3-35x^2+47x-12$
	$(x+2)(x+3)(x+1)$	16a	$\frac{ab}{2} + \frac{ab}{2} + \frac{ab}{2} + \frac{ab}{2}$
	$(x^2+3x+2x+6)(x+1)$		$\frac{ab+ab+ab+ab}{2}$
	$(x^2+5x+6)(x+1)$		$\frac{4ab}{2}$
	$x^2(x+1)+5x(x+1)+6(x+1)$		$2ab$
	$x^3+x^2+5x^2+5x+6x+6$		
	$x^3+6x^2+11x+6$	16b	$(a+b)(a+b)-c^2$
15b			$(a+b)^2-c^2$
	$(x+4)(x+2)(x+5)$	16c	$(a+b)^2-c^2=2ab$
	$(x^2+2x+4x+8)(x+5)$		$(a+b)(a+b)-c^2=2ab$
	$x^2+6x+8)(x+5)$		$(a^2+ab+ba+b^2)-c^2=2ab$
	$x^2(x+5)+6x(x+5)+8(x+5)$		$a^2+2ab+b^2-c^2=2ab$
	$x^3+5x^2+6x^2+30x+8x+40$		$a^2+b^2-c^2=0$
	$x^3+11x^2+38x+40$		$a^2+b^2=c^2$
15c			
	$(x+3)(x-4)(x+3)$		
	$(x^2-4x+3x-12)(x+3)$		
	$(x^2-x-12)(x+3)$		
	$x^2(x+3)-x(x+3)-12(x+3)$		
	$x^3+3x^2-x^2-3x-12x-36$		
	$x^3+2x^2-15x-36$		
15d			
	$(x-4)(2x+1)(x-3)$		
	$(2x^2+x-8x-4)(x-3)$		
	$(2x^2-7x-4)(x-3)$		
	$2x^2(x-3)-7x(x-3)-4(x-3)$		
	$2x^3-6x^2-7x^2+21x-4x+12$		
	$2x^3-13x^2+17x+12$		

5B

5B		$(y+1)(y-1)$	$5(x+3)(x-3)$	
3a	4e	$4x^2-9$	5c	$6y^2-24$
		$2^2x^2-3^2$		$6(y^2-4)$
3b		$(2x+3)(2x-3)$		$6(y^2-2^2)$
	4f	$36a^2-25$	5d	$6(y+2)(y-2)$
		$6^2a^2-5^2$		$3y^2-48$
3c		$(6a+5)(6a-5)$		$3(y^2-16)$
	4g			$3(y^2-4^2)$
3d		$1-81y^2$		$3(y+4)(y-4)$
		$1^2-9^2y^2$	5e	$3x^2-75y^2$
		$(1+9y)(1-9y)$		$3(x^2-25y^2)$
3e	4h	$100-9x^2$		$3(x^2-5^2y^2)$
		$10^2-3^2x^2$		$3(x+5y)(x-5y)$
3f		$(10+3x)(10-3x)$	5f	$3a^2-300b^2$
	4i	$25x^2-4y^2$		$3(a^2-100b^2)$
3g		$5^2x^2-2^2y^2$		$3(a^2-10^2b^2)$
		$(5x+2y)(5x-2y)$	5g	$3(a+10b)(a-10b)$
	4j			$12x^2-27y^2$
3h		$64x^2-25y^2$		$3(4x^2-9y^2)$
		$8^2x^2-5^2y^2$		$3(2^2x^2-3^2y^2)$
3i		$(8x+5y)(8x-5y)$		$3(2x+3y)(3x-3y)$
	4k	$9a^2-49b^2$	5h	$63a^2-112b^2$
		$3^2a^2-7^2b^2$		$7(9a^2-16b^2)$
4a		$(3a+7b)(3a-7b)$		$3(3^2a^2-4^2b^2)$
	4l			$3(3a+4b)(3a-4b)$
		$144a^2-49b^2$	5i	$(x+5)^2-16$
		$12^2a^2-7^2b^2$		$(x+5)^2-(4)^2$
4b		$(12a+7b)(12a-7b)$		$(x+5+4)(x+5-4)$
	5a	$2x^2-32$		$(x+9)(x+1)$
		$2(x^2-16)$	5j	$(x-4)^2-9$
4c		$2(x^2-4^2)$		$(x-4)^2-(3)^2$
		$2(x+4)(x-4)$		$(x-4+3)(x-4-3)$
	5b			$(x-1)(x-7)$
4d		$5x^2-45$	5k	$(a-3)^2-64$
		$5(x^2-9)$		$(a-3)^2-(8)^2$
		$5(x^2-3^2)$		

	$(a-3+8)(a-3-8)$	6e	x^2-14	6n	$(x-4\sqrt{2})(x-4\sqrt{2})$
5l	$(a+5)(a-11)$		$x^2-\sqrt{14}^2$		x^2-48
	$(a-7)^2-1$		$(x+\sqrt{14})(x-\sqrt{14})$		$x^2-\sqrt{48}^2$
	$(a-7)^2-(1)^2$	6f	x^2-30		$x^2-4\sqrt{3}^2$
	$(a-7+1)(a-7-1)$		$x^2-\sqrt{30}^2$	6o	$(x-4\sqrt{3})(x-4\sqrt{3})$
	$(a-6)(a-8)$		$(x-\sqrt{30}-\sqrt{30})$		x^2-50
5m	$(3x+5)^2-x^2$	6g	x^2-15		$x^2-\sqrt{50}^2$
	$(3x+5+x)(3x+5-x)$		$x^2-\sqrt{15}^2$		$x^2-5\sqrt{2}^2$
	$(4x+5)(2x+5)$		$(x-\sqrt{15})(x-\sqrt{15})$	6p	$(x-5\sqrt{2})(x-5\sqrt{2})$
5n	$(2y+7)^2-y^2$	6h	x^2-11		x^2-200
	$(2y+7+y)(2y+7-y)$		$x^2-\sqrt{11}^2$		$x^2-\sqrt{200}^2$
	$(3y+7)(y+7)$		$(x-\sqrt{11})(x-\sqrt{11})$	6q	$x^2-10\sqrt{2}^2$
5o	$(5x+11)^2-4x^2$	6i	x^2-8		$(x-10\sqrt{2})(x-10\sqrt{2})$
	$(5x+11)^2-2^2x^2$		$x^2-\sqrt{8}^2$		$(x+2)^2-6$
	$(5x+11+2x)(5x+11-2x)$		$x^2-2\sqrt{2}^2$	6r	$(x+2)^2-\sqrt{6}^2$
	$(7x+11)(3x+11)$		$(x-2\sqrt{2})(x-2\sqrt{2})$		$(x+2+\sqrt{6})(x+2-\sqrt{6})$
5p	$(3x-5y)^2-25y^2$	6j	x^2-18		$(x+5)^2-10$
	$(3x-5y)^2-5^2y^2$		$x^2-\sqrt{18}^2$		$(x+5)^2-\sqrt{10}^2$
	$(3x-5y+5y)(3x-5y-5y)$		$x^2-3\sqrt{2}^2$	6s	$(x+5+\sqrt{10})(x+5-\sqrt{10})$
	$3x(3x-10y)$		$(x-3\sqrt{2})(x-3\sqrt{2})$		$(x-3)^2-11$
6a	x^2-7	6k	x^2-45	6t	$(x-3)^2-\sqrt{11}^2$
	$x^2-\sqrt{7}^2$		$x^2-\sqrt{45}^2$		$(x-3+\sqrt{11})(x-3-\sqrt{11})$
	$(x+\sqrt{7})(x-\sqrt{7})$		$x^2-3\sqrt{5}^2$		$(x-1)^2-7$
6b	x^2-5		$(x-3\sqrt{5})(x-3\sqrt{5})$	6u	$(x-1)^2-\sqrt{7}^2$
	$x^2-\sqrt{5}^2$				$(x-1+\sqrt{7})(x-1-\sqrt{7})$
	$(x+\sqrt{5})(x-\sqrt{5})$	6l	x^2-20		$(x-6)^2-15$
6c	x^2-19		$x^2-\sqrt{20}^2$	6v	$(x-6)^2-\sqrt{15}^2$
	$x^2-\sqrt{19}^2$		$x^2-2\sqrt{5}^2$		$(x-6+\sqrt{15})(x-6-\sqrt{15})$
	$(x+\sqrt{19})(x-\sqrt{19})$		$(x-2\sqrt{5})(x-2\sqrt{5})$		$(x+4)^2-21$
6d	x^2-21	6m	x^2-32	6w	$(x+4)^2-\sqrt{21}^2$
	$x^2-\sqrt{21}^2$		$x^2-\sqrt{32}^2$		$(x+4+\sqrt{21})(x+4-\sqrt{21})$
	$(x+\sqrt{21})(x-\sqrt{21})$		$x^2-4\sqrt{2}^2$		$(x+1)^2-19$
					$(x+1)^2-\sqrt{19}^2$

	$(x+1+\sqrt{19})(x+1-\sqrt{19})$	8a		$(x-7)^2 - \sqrt{40}^2$	
6x	$(x-7)^2 - 26$		$x^2 - \frac{2}{9}$	$(x-7)^2 - 2\sqrt{10}^2$	
	$(x-7)^2 - \sqrt{26}^2$		$x^2 - \frac{\sqrt{2}^2}{3}$	$(x-7+2\sqrt{10})(x-7-2\sqrt{10})$	
	$(x-7+\sqrt{26})(x-7-\sqrt{26})$		$(x+\frac{\sqrt{2}}{3})(x-\frac{\sqrt{2}}{3})$	8i	$3x^2 - 4$
7a	$x^2 + 4x + ax + 4a$	8b	$x^2 - \frac{3}{4}$	$\sqrt{3}^2 x^2 - 2^2$	$(\sqrt{3}x+2)(\sqrt{3}x-2)$
	$x(x+4) + a(x+4)$		$x^2 - \frac{\sqrt{3}^2}{2}$	8j	$5x^2 - 9$
	$(x+4)(x+a)$		$(x+\frac{\sqrt{3}}{2})(x-\frac{\sqrt{3}}{2})$	$\sqrt{5}^2 x^2 - 3^2$	$(\sqrt{5}x+3)(\sqrt{5}x-3)$
7b	$x^2 + 7x + bx + 7b$		8c	$7x^2 - 5$	
	$x(x+7) + b(x+7)$		$x^2 - \frac{7}{16}$	$\sqrt{7}^2 x^2 - \sqrt{5}^2$	$(\sqrt{7}x+\sqrt{5})(\sqrt{7}x-\sqrt{5})$
	$(x+7)(x+b)$		$x^2 - \frac{\sqrt{7}^2}{4}$	8l	$6x^2 - 11$
7c	$x^2 - 3x + ax - 3a$		$(x+\frac{\sqrt{7}}{4})(x-\frac{\sqrt{7}}{4})$	$\sqrt{6}^2 x^2 - \sqrt{11}^2$	$(\sqrt{6}x+\sqrt{11})(\sqrt{6}x-\sqrt{11})$
	$x(x-3) + a(x-3)$	8d	$x^2 - \frac{5}{36}$	8m	$-9 + 2x^2$
	$(x-3)(x+a)$		$x^2 - \frac{\sqrt{5}^2}{6}$	$2x^2 - 9$	
7d	$x^2 + 2x - ax - 2a$		$(x+\frac{\sqrt{5}}{6})(x-\frac{\sqrt{5}}{6})$	$\sqrt{2}^2 x^2 - 3^2$	$(\sqrt{2}x+3)(\sqrt{2}x-3)$
	$x(x+2) - a(x+2)$		8e	8n	$-16 + 5x^2$
	$(x+2)(x-a)$		$(x-2)^2 - 20$	$5x^2 - 16$	
7e	$x^2 + 5x - bx - 5b$		$(x-2)^2 - \sqrt{20}^2$	$\sqrt{5}^2 x^2 - 4^2$	$(\sqrt{5}x+4)(\sqrt{5}x-4)$
	$x(x+5) - b(x+5)$		$(x-2)^2 - 2\sqrt{5}^2$	8o	$-10 + 3x^2$
	$(x+5)(x-b)$		$(x-2+2\sqrt{5})(x-2-2\sqrt{5})$	$3x^2 - 10$	
7f	$x^2 + 3x - 4ax - 12a$	8f	$(x+4)^2 - 27$	$\sqrt{3}^2 x^2 - \sqrt{10}^2$	$(\sqrt{3}x+\sqrt{10})(\sqrt{3}x-\sqrt{10})$
	$x(x+3) - 4a(x+3)$		$(x+4)^2 - \sqrt{27}^2$	8p	$-7 + 13x^2$
	$(x+3)(x-4a)$		$(x+4)^2 - 3\sqrt{3}^2$	$13x^2 - 7$	
7g	$x^2 - ax - 4x + 4a$		$(x+4+3\sqrt{3})(x+4-3\sqrt{3})$	$\sqrt{13}^2 x^2 - \sqrt{7}^2$	$(\sqrt{13}x+\sqrt{7})(\sqrt{13}x-\sqrt{7})$
	$x(x-a) - 4(x-a)$	8g	$(x+1)^2 - 75$	9a	$xy - 6 - 3x + 2y$
	$(x-a)(x-4)$		$(x+1)^2 - \sqrt{75}^2$	$xy + 2y - 3x + 6$	
7h	$x^2 - 2bx - 5x + 10b$		$(x+1)^2 - 5\sqrt{3}^2$	$y(x+2) - 3(x+2)$	
	$x(x-2b) - 5(x-2b)$		$(x+1+5\sqrt{3})(x+1-5\sqrt{3})$	$(x+2)(y-3)$	
	$(x-2b)(x-5)$	8h	$(x-7)^2 - 40$		
7i	$3x^2 - 6ax - 7x + 14a$				
	$3x(x-2a) - 7(x-2a)$				
	$(x-2a)(3x-7)$				

9b	$ax - 12 + 3a - 4x$ $ax + 3a - 4x - 12$ $a(x + 3) - 4(x + 3)$ $(x + 3)(a - 4)$	$7(x^2 - \sqrt{18}^2)$ $7(x^2 - 3\sqrt{2}^2)$ $7(x + 3\sqrt{2})(x - 3\sqrt{2})$
9c	$ax - 10 + 5x - 2a$ $ax - 2a + 5x - 10$ $a(x - 2) + 5(x - 2)$ $(x - 2)(a + 5)$	10d 15a $(x + 2)^2 - (x + 3)^2$ $(x + 2)(x + 2) - (x + 3)(x + 3)$ $x^2 + 4x + 4 - x^2 - 6x - 9$ $-2x - 5$ $-(2x + 5)$
9d	$xy + 12 - 3y - 4x$ $xy - 3y - 4x + 12$ $y(x - 3) - 4(x - 3)$ $(x - 3)(y - 4)$	
9e	$2ax + 3 - a - 6x$ $2ax - 6x - a + 3$ $2x(a - 3) - 1(a - 3)$ $(2x - 1)(a - 3)$	
9f	$2ax - 20 + 8a - 5x$ $2ax + 8a - 5x - 20$ $2a(x + 4) - 5(x + 4)$ $(x + 4)(2a - 5)$	
10a	$5x^2 - 120$ $5(x^2 - 24)$ $5(x^2 - \sqrt{24}^2)$ $5(x^2 - 2\sqrt{6}^2)$ $5(x + 2\sqrt{6})(x - 2\sqrt{6})$	
10b	$3x^2 - 162$ $3(x^2 - 54)$ $3(x^2 - \sqrt{54}^2)$ $3(x^2 - 3\sqrt{6}^2)$ $3(x + 3\sqrt{6})(x - 3\sqrt{6})$	
10c	$7x^2 - 126$ $7(x^2 - 18)$	