7. $8x^2 + 10x - 3$

KEY #

$ac = 8(3) = 24$

P	S	D
1·24	25	23
2·12	14	(10)
3·8	11	5
4·6	10	2

$8x^2 + 12x - 2x - 3$

$4x(2x+3) - 1(2x+3)$

$(2x+3)(4x-1)$

8. $20x^2 - 12x + 1$

KEY #

$ac = 20(1) = 20$

P	S	D
1·20	21	19
2·10	(12)	8
4·5	9	1

$20x^2 - 10x - 2x + 1$

$10x(2x-1) - 1(2x-1)$

$(2x-1)(10x-1)$

9. $3x^2 - x - 21x + 7$

$x(3x-1) - 7(3x-1)$

$(3x-1)(x-7)$

10. $27x^2 + 9x - 6x - 2$

$9x(3x+1) - 2(3x+1)$

$(3x+1)(9x-2)$

11. $9x^2 - 4$ DOTS

$(3x)^2 - (2)^2$

F L

$(F+L)(F-L)$

$(3x+2)(3x-2)$

12. $27x^3 - 64$

$(3x)^3 - (4)^3$

F L

DIFF OF 2 CUBES

$(F-L)(F^2+FL+L^2)$

$(3x-4)((3x)^2 + (3x)(4) + (4)^2)$

$(3x-4)(9x^2+12x+16)$

13. $x^3 + 27$

SUM OF 2 CUBES

$(x)^3 + (3)^3$

F L

$(F+L)(F^2-FL+L^2)$

$(x+3)(x^2 - (x)(3) + (3)^2)$

$(x+3)(x^2-3x+9)$