10. $15x^2 - 16x + 4$

KEY#

$ac = 15(4) = 60$

P	S	D
1·60	61	59
2·30	32	28
3·20	23	17
4·15	19	11
5·12	17	7
6·10	16	4

$15x^2 - 10x - 6x + 4$

$5x(3x-2) - 2(3x-2)$

$(3x-2)(5x-2)$

11. $16x^2 - 26x + 3$

KEY#

$ac = 16(3) = 48$

F	S	D
1·48	49	47
2·24	26	22
3·16	19	13
4·12	16	8
6·8	14	2

$16x^2 - 24x - 2x + 3$

$8x(2x-3) - 1(2x-3)$

$(2x-3)(8x-1)$

12. $6x^2 - 17xy + 5y^2$

KEY#

$ac = 6(5) = 30$

F	S	D
1·30	31	29
2·15	17	13
3·10	13	7
5·6	11	1

$6x^2 - 15xy - 2xy + 5y^2$

$3x(2x-5y) - y(2x-5y)$

$(2x-5y)(3x-y)$

13. $25x^2 - 9y^2$ DOTS

$(5x)^2 - (3y)^2$ (F, L)

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

$(5x+3y)(5x-3y)$

14. $16x^4 - 1$ DOTS

$(4x^2)^2 - (1)^2$

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

$(4x^2+1)[(2x)^2 - (1)^2]$

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

15. $8x^3 - 27$ DIFF OF 2 CUBES

$(2x)^3 - (3)^3$ (F, L)

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

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

$(2x-3)(4x^2+6x+9)$

16. $27x^3 + 64$ SUM OF 2 CUBES

$(3x)^3 + (4)^3$ (F, L)

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

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

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

17. $2x^3 - 32x$

$2x(x^2 - 16)$ GCF

$2x[(x)^2 - (4)^2]$ DOTS

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