Factoring Polynomials

Emphasis on Factoring Difference of Squares

Completely factor each of the following:

1. $x^2 - 36$ $(x+6)(x-6)$	2. $x^2 - 100$ $(x-10)(x+10)$
3. $x^2 - 169$ $(x-13)(x+13)$	4. $x^2 - 400$ $(x+20)(x-20)$
5. $x^2 - 81$ $(x+9)(x-9)$	6. $x^2 - 25$ $(x-5)(x+5)$
7. $x^2 - 121$ $(x-11)(x+11)$	8. $x^2 - 361$ $(x+19)(x-19)$
9. $x^2 - 4$ $(x-2)(x+2)$	10. $x^2 - 1$ $(x-1)(x+1)$

11. $289x^2 - 9$ $(17x-3)(17x+3)$	12. $4x^2 - 25$ $(2x-5)(2x+5)$
13. $144x^2 - 49$ $(12x-7)(12x+7)$	14. $64x^2 - 225$ $(8x+15)(8x-15)$
15. $324x^2 - 361$ $(18x-19)(18x+19)$	16. $400x^2 - 81$ $(20x-9)(20x+9)$
17. $169x^2 - 1$ $(13x-1)(13x+1)$	18. $256x^2 - 361$ $(16x-19)(16x+19)$
19. $25x^2 - 196$ $(5x+14)(5x-14)$	20. $81x^2 - 400$ $(9x-20)(9x+20)$