Factoring Polynomials

Factor each of the polynomials given:

1. $x^2 - 5x - 6$

2. $x^2 + 4x - 12$

3. $x^2 + 8x + 15$

4. $x^2 - 9x + 14$

5. $6x^2 - 5x - 6$

6. $6x^2 - 25x + 25$

7. $4x^2 - 15x - 4$

8. $12x^2 - 25x + 12$

9. $9x^2 + 26x + 16$

10. $24x^2 - 7x - 6$

11. $16x^2 + 45x - 9$

12. $4x^2 - 9y^2$

13. $16x^2 - 25y^2$

14. $(4x - 3)^2 - (3x + 4)^2$

15. $(x^2 + x + 4)^2 - (x^2 - 4x + 10)^2$

16. $(2x^2 + x - 6)^2 - (x^2 - 4x - 12)^2$

17. $x^4 + x^2 + 1$

18. $x^4 + 2x^2 + 9$

19. $(x^2 + x - 4)^2 - (x^2 - 4x - 10)^2$