More Factoring Quadratic Equations

Factor.

1. $x^2 + 9x + 14$ _____

2. $y^2 - 15y + 54$ _____

3. $a^2 - 3a - 18$ _____

4. $m^2 + 23m - 24$ _____

5. $a^2 + 2a - 3$ _____

6. $t^2 + 8t + 15$ _____

7. $y^2 - 10y + 16$ _____

8. $a^2 + 2a - 24$ _____

9. $x^2 + x - 42$ _____

10. $n^2 - 12n + 35$ _____

11. $m^2 + 5m + 6$ _____

12. $a^2 + 4a - 5$ _____

13. $t^2 - 7t + 12$ _____

14. $y^2 + 10y + 21$ _____

Factor.

15. $2x^2 - 13x - 45$ _____

16. $2y^2 - 10y + 8$ _____

17. $15 - 2c - c^2$ _____

18. $8a^2 + 22a + 15$ _____

19. $21 + m - 10m^2$ _____

20. $18n^2 + 33n - 6$ _____

21. $3y^2 - 20y + 12$ _____

22. $40x^2 + 10x - 15$ _____

23. $a^3 - 8a^2 + 16a$ _____

24. $84 - 2c - 2c^2$ _____

25. $2x^2 - 3x - 2$ _____

26. $3a^2 - 10a + 3$ _____

27. $2x^2 - 12x + 10$ _____

28. $5y^2 + 25y + 30$ _____

Factor by grouping.

29. $x^3 - 2x^2 + 3x - 6$ _____

30. $y^3 - y + 3y^2 - 3$ _____

31. $4a^3 + 28a^2 + a + 7$ _____

32. $8m^3 - 20m^2 - 6m + 15$ _____

33. $t^3 + 2t^2 - 7t - 14$ _____

34. $c^3 + 3c^2 - 9c - 27$ _____

35. $y^3 + y + 2y^2 + 2$ _____

36. $n^3 - 2n^2 + 4n - 8$ _____