Precalculus
Factoring Worksheet 1

Name_____
Period_____

Factor each polynomial completely.

1. $x^2+11x+28$

2. x^4-8x^2-33

3. x^3+4x^2-45x

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

5. $3x^2-11x-4$

6. $4x^2+4x-3$

7. $6x^2+5x+1$

8. $10x^2+26x-12$

9. x^2-9

10. $25x^2-100$

11. $81-49y^2$

12. x^3+1

13. $8x^3+64$

14. $27x^3+125y^3$

15. x^3-8

16. $2x^3-54$

17. $64x^3-y^3$

18. x^3+2x^2-4x-8

19. $ax-bx+2ay-2by$

20. $3x^3+9x^2+6x+18$

Precalculus
Factoring Worksheet 2

Name_____
Period_____

Factor each polynomial completely.

1. $x^2+12x+35$

2. x^4-7x^2-44

3. x^3+16x^2-17x

4. $2x^2+7x+6$

5. $3x^2-5x-2$

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

7. $4x^2+28x+45$

8. $15x^3-18x^2+3x$

9. x^2-64

10. $18x^2-32$

11. $121x^2-196y^2$

12. x^3+27

13. $2x^3+128$

14. $64x^3+216y^3$

15. x^3-1

16. $2x^3-16$

17. $125x^3-8y^3$

18. $ax-ay+bx-by$

19. x^3+x^2-4x-4

20. $2x^3+6x^2+6x+18$

Name_____

Factoring Trinomials (a > 1)

Date_____ Period____

Factor each completely.

1) $3p^2 - 2p - 5$

2) $2n^2 + 3n - 9$

3) $3n^2 - 8n + 4$

4) $5n^2 + 19n + 12$

5) $2v^2 + 11v + 5$

6) $2n^2 + 5n + 2$