

ALGEBRA II  
TOUGH Factoring Worksheet

Name \_\_\_\_\_

The following problems are worthy of "extra" practice. Section 1 are all examples of ( $a > 1$ ) trinomial factoring. Section 2 contains problems that all require 2-steps to completely factor. Good luck!

Section 1

1)  $4x^2 + 21x + 20$

2)  $15x^2 - 8x - 12$

3)  $24x^2 - 35x + 9$

4)  $7y^2 - 11y + 4$

5)  $9n^2 + 18n + 5$

6)  $12p^2 + 5p - 2$

7)  $18a^2 - 23a - 6$

8)  $8m^2 - 14m - 9$

9)  $5x^2 + 3x - 8$

Section 2

10)  $16d^4 - 9d^2$

11)  $2n^2 + 10n - 28$

12)  $4r^2q + 40rq^2 + 100q^3$

13)  $24x^3 - 3$

14)  $10x^2y + 11xy - 6y$

15)  $m^4 - 16$

16)  $10p^2 - 160p + 600$

17)  $10b^2 - 40$

18)  $j^5 + 64j^2$