

Advanced Algebra  
Polynomial Functions: Factoring – Homework

*Factor each expression completely:*

1.  $6x^2 + 7x - 3$

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

3.  $9x^2 - 1$

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

5.  $4x^3 + 2x^2 - 20x$

6.  $-12x^2 + 27$

7.  $3x^3 + 15x^2 - 10x$

8.  $16x^2 + 4$

9.  $25x^2 + 20x + 4$

10.  $3x^3 + 24$

11.  $6x^2 + 19x - 36$

12.  $5x^4 - 10x^2 + 5$

13.  $x^3 - 64$

14.  $8x^2 - 22x + 9$

15.  $9x^2 - 6x + 1$

16.  $5x^4 - 5x$

17.  $18x^2 - 75x + 50$

18.  $16x^4 - 72x^2 + 81$

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

20.  $x^4 - 16$