

Pre-Calculus Honors  
Factoring Review Worksheet

Name: \_\_\_\_\_

Factor each of the following completely.

1.  $12xy^2 - 22xy - 20x$

2.  $1000a^3 + 27b^3$

3.  $125x^3y - y$

4.  $80x^8y^6 - 32x^9y^5$

5.  $12x^2 + x - 6$

6.  $25x^2z + 75x^3z + 125x^4z$

7.  $81x^4y - y$

8.  $27x^2 - 12x + 18$

9.  $x^3 + 3x^2 - x - 3$

10.  $64y^3 - 27$

11.  $3x^2 + 8x - 4$

12.  $16a^2b^3 - 12ab^4$

13.  $y^6 - 64$

14.  $20x^2 - 80x^2y + 20z - 80yz$

15.  $8a^2 - 22a + 5$

16.  $18 + 19y^2 - 12y^4$

17.  $6x^3 - 4x^2 - 24x + 16$

18.  $36a^4 + 25$

19.  $x^8 - x^6$

20.  $72x^4y^2 + 418x^2y^2 - 200y^2$