

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

Date: \_\_\_\_\_

PC: More Practice Factoring

On separate paper, factor each of the following completely. If the polynomial cannot be factored, write prime.

1.  $a^2 - 121b^4$

14.  $2(x^2 - 7)^2 - 3(x^2 - 7) - 2$

2.  $8 - 27a^3$

15.  $(x^3 - 2)^2 - 3(x^3 - 2) - 18$

3.  $a^2 + 2b - 2a - ab$

16.  $p^5q - pq$

4.  $x^2 - y - x + xy$

17.  $xy + 2 - 2y - x$

5.  $7x^3 + 7h^3$

18.  $x^2 - 6x + 9 - 4y^2$

6.  $40ab^3 - 5a^4$

19.  $z^2 + 2z + 1 - w^2$

7.  $5x^2 + 31x + 6$

20.  $x^2 - y^2 + 2y - 1$

8.  $8x^2 - 16x + 6$

21.  $a^2 - b^2 - 4b - 4$

9.  $12a^2 - 25a + 12$

22.  $81x^8 - 16y^4$

10.  $15(2x+1)^2 + (2x+1) - 2$

23.  $x^2 - y^2 - 5x + 5y$

11.  $3p^2 - 7p - 6$

12.  $6x^2 + 7x - 10$

13.  $4t^2 - 9t + 6$