

## Specialized Grouping Practice

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

Factor the following polynomials by **grouping**.

For this worksheet you may always group the first two and the last two!

1.  $12x^2 - 8xy - 15xy + 10y^2$

2.  $5x^2 - 10x + 4x - 8$

3.  $64x^2 - 8x - 8x + 1$

4.  $-x^2 - x - x - 1$

5.  $-8x^2 + 2xy + 4xy - y^2$

6.  $10x^2 + 4x - 5x - 2$

7.  $-4x^2 - x + 20x + 5$

8.  $2x^2 - 3x - 4x + 6$

9.  $-6x^2 - 3xy + 4xy + 2y^2$

10.  $2x^2 - 2x - x + 1$

11.  $-7x^2 - 14xy + xy + 2y^2$

12.  $4y^2 - 2y - 2y + 1$

13.  $-12x^2 - 4xy + 3xy + y^2$

14.  $-18x^2 - 3x + 12x + 2$

15.  $-4y^2 + 8xy + xy - 2x^2$

16.  $-2x^2 + 3x + 10x - 15$

17.  $3x^2 - 6x - x + 2$

18.  $2y^2 - 4yz - yz + 2z^2$

19.  $-b^2 - 3b + 2b + 6$

20.  $4m^2 - 16mn - mn + 4n^2$

21.  $15s^2 - 3st - 10st + 2t^2$

22.  $6p^2 - 18p - p + 3$

23.  $3y^2 - 12y - y + 4$

24.  $9b^2 - 3b - 3b + 1$

25.  $5x^2 - 25xy - xy + 5y^2$

26.  $8d^2 - 2de - 12de + 3e^2$

27.  $-f^2 - 5f + 4f + 20$

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

29.  $-3x^2 + 9xy + xy - 3y^2$

30.  $3y^2 + 3y - 2y - 2$

31.  $7g^2 + 2g - 21g - 6$

32.  $2x^2 - 2x + x - 1$

33.  $-h^2 - 5h + 3h + 15$

34.  $3k^2 - 9kl - kl + 3l^2$

35.  $c^2 - 2c + c - 2$