

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

### **Worksheet Factoring by Grouping**

Factor each completely.

1.  $5(a+b)+x(a+b)$

2.  $x(x+4)-3(x+4)$

3.  $x(x-2)+(x-2)$

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

5.  $28-14q-2q+q^2$

6.  $2ax-2ay-5bx+5by$

7.  $4w+12-zw-3z$

8.  $24r^3-64r^2-21r+56$

9.  $8-12p-6p^3+9p^4$

10.  $3x^3+3xy^2+4x^2y+4y^3$

11.  $4v^3-12v^2-5v+15$

12.  $49x^3-35x^2+56x-40$

13.  $x^3+3x^2+4x+12$

14.  $5x^3-2x^2+5x-2$

15.  $2x^3+5x^2+6x+15$

16.  $24p^3+15p^2-56p-35$

17.  $x^3-3x^2-4x+12$

18.  $x^3-x^2-x+1$