

5.2 Factor by Grouping

Name _____

Factor.	
1. $xy + 5x + 2y + 10$	2. $xy - 4x + 3y - 12$
3. $6xy - 4x + 9y - 6$	4. $15xy - 10x + 6y - 4$
5. $xy - 3x - 5y + 15$	6. $2xy - 8x - 3y + 12$
7. $xy + 10 + 5x + 2y$	8. $xy + 12 + 4x + 3y$
Answers: 1. $(x + 2)(y + 5)$; 3. $(2x + 3)(3y - 2)$; 5. $(x - 5)(y - 3)$; 7. $(x + 2)(y + 5)$	

Factor.

9. $2xy + 10x - 5 - y$

10. $3xy - 4 - 3x + 4y$

11. $x^2 + 2x - 5x - 10$

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

13. $6x^2 - 3x + 10x - 5$

14. $10x^2 - 2ax + 5ax - a^2$

Answers: **9.** $(2x - 1)(y + 5)$; **11.** $(x - 5)(x + 2)$; **13.** $(3x + 5)(2x - 1)$