

College Prep Algebra
GCF and Factor By Grouping

NAME _____
HOUR _____ **DUE DATE** _____

Factor Completely.

1. $9r + 24t$

2. $18q^2 - 45q$

3. $15w^2 + 90w$

4. $42tw + 28t - 20t^2$

5. $5a^4 + 25a^3 - 20a^2$

6. $16x^2y + 24xy + 40xy^2$

7. $20y^7m^2 - 36y^3m^4$

8. $5(a + b) + x(a + b)$

9. $c(a - b) - d(a - b)$

10. $11y^2 - 10$

11. $5a^2b + 10ab + 15ab^2$

12. $2y^2 + 4y + 6x + 3xy$

13. $q^2 + 9q + rq + 9r$

14. $7y + xy - 9x - 63$

15. $2a^3 - 3a^2b + 2ab^2 - 3b^3$

16. $2ax - 2ay - 5bx + 5by$

17. $4w + 12 - zw - 3z$

18. $28 - 14q - 2q + q^2$

19. $8 - 12p - 6p^3 + 9p^4$

20. $3x^3 + 3xy^2 + 4x^2y + 4y^3$