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GCF and Factor by Grouping

Factor out the GCF of the given polynomials. **SHOW YOUR WORK ON NOTEBOOK PAPER.**

1. $15w^2 - 3w$

1. _____

2. $7u^2t^2 + 21ut^2 - ut$

2. _____

3. $-8xy - 2x + 4y$

3. _____

4. $2mk - 12m + 24k$

4. _____

Factor the following polynomials using the grouping method. **SHOW YOUR WORK ON NOTEBOOK PAPER**

5. $3np + 15p - 4n - 20$

5. _____

6. $4qr + 8r + 3q + 6$

6. _____

9. $105n^3 + 175n^2 - 75n - 125$

9. _____

10. $12x^3 + 2x^2 - 30x - 5$

10. _____

11. $5n^3 - 10n^2 + 3n - 6$

11. _____

12. $mz - 5mh^2 - 5nz + 25nh^2$

12. _____

13. $x^3 - 5x^2 + 3x - 15$

13. _____

14. $35xy - 5x - 56y + 8$

14. _____

15. $12xy - 28x - 15y + 35$

15. _____

16. $4x^2 + 20x - 3xy - 15y$

16. _____

18. $3x^3 - 6x^2 + 15x - 30$

18. _____

19. $40xy - 30x - 100y - 75$

19. _____