

SM2 Factoring Test Review

Factor out the greatest common factor. If the leading coefficient is negative, factor out a negative GCF.

1. $10x^2 - 5x$

2. $-12w^3 + 21$

3. $12p^5q + 36p^4q + 8pq$

Factor by grouping. Don't forget to factor out the GCF first, if there is one.

4. $15m^3 + 5m^2 - 6m - 2$

5. $4rt - 8r + t - 2$

Completely factor each trinomial. If the trinomial is prime, say so. Don't forget to factor out the GCF first, if there is one.

6. $v^2 - 4v - 21$

7. $x^2 + 6x + 14$

8. $m^2 - 6m + 9$

9. $5p^2 - 25p + 60$

10. $3r^3 + 15r^2 - 42r$

11. $4n^2 - 5n - 6$

12. $7t^2 + 15t - 4$

13. $2z^2 - 8$

14. $9a^2 + 24a + 16$

15. $-10y^2 + 35y + 20$

16. $z^2 - 16$

17. $x^2 + 9$

18. $49x^2 - 1$

19. $2q^2 - 13q + 20$

20. $49m^2 - 16$