

WS - Expanding & Factoring Skills

- Factor -12 from $-12x^2 - 192x - 756$.
- Factor -7 from $-7x^2 - 21x + 378$.
- Factor 6 from $6x^2 + 30x - 300$.
- Factor 50 from $50x^2 - 550x + 1500$.
- Factor 5 from $5x^2 + 85x + 350$.
- Factor 12 from $12x^2 - 228x + 1080$.
- Factor 7 from $7x^2 + 7x - 630$.
- Factor 10 from $10x^2 - 170x + 720$.
- Factor -3 from $-3x^2 + 39x - 120$.
- Factor -50 from $-50x^2 + 800x - 3150$.
- Identify the Greatest Common Factor for:
 $49x^3y^5z^3 + 35x^3y^4z^4 - 49x^5y^5z^3$
- Identify the Greatest Common Factor for:
 $12xy^4z^3 - 3x^3y^5z^6 + 12x^2y^5z^6$
- Identify the Greatest Common Factor for:
 $-4x^3y^4z^2 + 7x^2y^4z^3 - 3x^3y^3z^3$
- Identify the Greatest Common Factor for:
 $-x^3y^5z^3 - 4x^3y^3z^3 + 2x^2y^5z^3$
- Identify the Greatest Common Factor for:
 $-35xy^3z^2 + 15y^3z^2 - 30x^3y^4z^3$
- Identify the Greatest Common Factor for:
 $12x^3yz + 24x^5yz^2 - 16x^2z^4$
- Identify the Greatest Common Factor for:
 $16x^5y^6z^4 + 8x^5y^4z^3 + 32x^2y^5z^4$
- Identify the Greatest Common Factor for:
 $15x^6y^4z^3 + 21x^3y^4z^2 - 9x^4y^6$
- Identify the Greatest Common Factor for:
 $4xy^2z + 28xy^3z^3 + 16x^3yz^2$
- Identify the Greatest Common Factor for:
 $x^3yz^3 - 7x^3yz^3 - x^6y^3z^3$
- Identify the Greatest Common Factor for:
 $21x^2z^2 - 6xy^2z^3 + 6x^2z^5$
- Factor (using GCF): $-10x^4yz^3 - 16x^2y^4z^5 + 12x^2y^2z^2$
- Factor (using GCF): $-18xy^2z^3 + 27xz^3 + 3x^2y^3z$
- Factor (using GCF): $-12x^2y^5z^5 + 3x^3y^4z^2 + 18xy^2z^2$
- Factor (using GCF): $-6x^2y^3z^2 - 24x^3y^3z^3 - 30x^2y^3z^2$
- Factor (using GCF): $-56x^3y^4z^6 - 24x^2y^6z^5 + 24xy^5z^6$
- Factor (using GCF): $-20x^3y^4 + 4x^4y^3z^3 - 24x^3y^5z$
- Factor (using GCF): $-81x^4y^5z + 9xy^3 - 72x^2y^4z^2$
- Factor (using GCF): $32x^5yz^5 + 8x^5y^2z^3 + 8x^2yz^4$
- Factor (using GCF): $-12x^5yz^6 - 20x^3y^4z^4 + 24x^4y^3z^4$
- Factor (using GCF): $49x^4y^2z^5 + 63x^3y^3z^2 - 21xyz^3$
- Factor (using GCF): $36x^2y^4z^3 - 81x^5y^3z^5 - 36x^3y^5z^3$
- Factor (using GCF): $20x^2yz^3 - 30x^4y^2z + 5x^3y$
- Factor (using GCF): $12x^5y^4z^3 + 8x^6y^3z^2 - 6x^6y^5z$
- Factor (using GCF): $6x^4y^2z^6 - 8x^3y^3z^3 - 14x^5y^3z^4$

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Answer Section

1. $-12(x^2 + 16x + 63)$
2. $-7(x^2 + 3x - 54)$
3. $6(x^2 + 5x - 50)$
4. $50(x^2 - 11x + 30)$
5. $5(x^2 + 17x + 70)$
6. $12(x^2 - 19x + 90)$
7. $7(x^2 + x - 90)$
8. $10(x^2 - 17x + 72)$
9. $-3(x^2 - 13x + 40)$
10. $-50(x^2 - 16x + 63)$
11. GCF = $7x^3y^2z^2$
12. GCF = $3xy^3z^3$
13. GCF = $-x^2yz^2$
14. GCF = $-xy^2z^3$
15. GCF = $-5y^2z$
16. GCF = $4x^2z$
17. GCF = $8x^2y^3z$
18. GCF = $3x^3y^3$
19. GCF = 4
20. GCF = x^3y
21. GCF = $3z^2$
22. $-2xyz^3(5x^3 + 8xy^3z^2 - 6xyz^3)$
23. $-3z(6xy^2z^2 - 9xz^2 - x^2y^3)$
24. $-3xy^2z^2(4xy^3z^3 - x^2y^2 - 6)$
25. $-6x^2y^2z(yz + 4xyz^2 + 5yz)$
26. $-8xy^3z^3(7x^2yz^3 + 3xy^3z^2 - 3y^2z)$
27. $-4x^3y^2(5y^2 - xyz^3 + 6y^3z)$
28. $-9xy^3(9x^3y^2z - 8xyz^2)$
29. $8x^2z^2(4x^3yz^3 + x^3y^2z + yz^2)$
30. $-4x^3yz^3(3x^2z^3 + 5y^3z - 6xy^2z)$
31. $7xz^2(7x^3y^2z^3 + 9x^2y^3 - 3yz)$
32. $9x^2y^2z^2(4y^2z - 9x^3yz^3 - 4xy^3z)$
33. $5x^2(4yz^3 - 6x^2y^2z + xy)$
34. $2x^3y^2z(6x^2y^2z^2 + 4x^3yz - 3x^3y^3)$
35. $2x^3yz^3(3xyz^3 - 4y^2 - 7x^2y^2z)$