**Day of Factoring**

*Factor each polynomial completely. If the polynomial cannot be factored, write “DNF” for “Does Not Factor.” Show all work on separate paper. Make sure your work is numbered and legible. No work = no credit.*

|  |  |  |
| --- | --- | --- |
| 1. $m^{2}+3m-10$ | 2. $-20z^{7}+9z^{4}-2z$ | 3. $35u^{2}+83u+36$ |
| 4. $49r^{2}-81$ | 5. $90p^{2}+182p+36$ | 6. $-18b^{7}-6b^{5}-12b^{3}$ |
| 7. $y^{2}+15y+36$ | 8. $3x^{2}+27$ | 9. $g^{2}+g-30$ |
| 10. $16x-9$ | 11. $49r^{2}-14r-15$ | 12. $9g^{3}h^{8}-9g^{4}h^{8}-15g^{7}h$ |
| 13. $16x^{2}+16x+3$ | 14. $5x^{3}-10x^{2}-15x$ | 15. $5x^{5}-245x^{3}$ |
| 16. $15m^{2}+13m-72$ | 17. $x^{2}-6x+9$ | 18. $2k+5$ |
| 19. $a^{2}-10a+24$ | 20. $g^{2}-1$ | 21. $12x^{2}+6-17x$ |
| 22. $361v^{2}-289$ | 23. $2x^{3}+3x^{2}-20x$ | 24. $16v^{2}-24v+9$ |
| 25. $h-4$ | 26. $50y^{2}-20$ | 27. $-8x^{4}+288x^{2}$ |
| 28. $-40x^{2}-44x+24$ | 29. $10x^{2}+20+33x$ | 30. $c^{2}-19c+84$ |

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