

Name:

Date:

Topic:

Class:

| Main Ideas/Questions | Notes/Examples | |
|---|-------------------------|-------------------------|
| GCF | 1. $12a^3 + 10a^2$ | 2. $14m^8n^5 - 7m^2n^2$ |
| | | |
| DIFFERENCE OF SQUARES $a^2 - b^2$ | Perfect Squares: | |
| | Rule: | |
| | 3. $9x^2 - 49y^2$ | 4. $72c^4 - 2$ |
| | 5. $7m^7n - 28mn^3$ | 6. $10w^5 - 10w$ |
| SUM OF CUBES $a^3 + b^3$ | Perfect Cubes: | |
| | Rule: | |
| | 7. $x^3 + 27$ | 8. $m^3 + 216n^3$ |
| | 9. $500a^3 + 4$ | 10. $24c^4d + 375cd^4$ |
| DIFFERENCE OF CUBES $a^3 - b^3$ | Rule: | |
| | 11. $x^3 - 1$ | 12. $216k^3 - 125$ |
| | 13. $4 - 32h^3$ | 14. $2x^3 - 54y^3$ |
| | | |

TRINOMIALS

15. $n^4 + 2n^2 - 24$

16. $w^3 + w^2 - 20w$

17. $2a^3 + 38a^2 + 68a$

18. $x^5 - 24x^3 - 25x$

19. $3x^4 + 14x^2 - 5$

20. $9m^4 - 12m^2 + 4$