

State the degree and the numerical coefficient of each term.

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|----------------|---------------------|----------------|-------|
| 1. $4x^2$ | <u>two</u> <u>4</u> | 2. $17y$ | _____ |
| 3. $3y$ | _____ | 4. $-8z^4$ | _____ |
| 5. 7 | _____ | 6. $15xz^3$ | _____ |
| 7. $-5xy^2z$ | _____ | 8. $-21y^2z^2$ | _____ |
| 9. $-8x^3y^2z$ | _____ | 10. 28 | _____ |

Write the highest degree term of each polynomial.

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|-------------------------------------|---------------------------|------------------------------------|-------|
| 11. $3x^3y - 4xz + 2xy^2 + 7$ | <u>$3x^3y$</u> | 12. $2x^2yz - 5x^3y^2 + 10xz - 5$ | _____ |
| 13. $2xyz + 3x^3y^2z - 5xy^2z$ | _____ | 14. $-3xy + 3yz + 2xyz + 6$ | _____ |
| 15. $10xy^2z - 3x^2yz + 2x^2y^2z^2$ | _____ | 16. $4x^3y - 2x^2y^2 + 3xy^3z - 4$ | _____ |

State the degree of each polynomial.

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|------------------------------|--------------|---------------------------------|-------|
| 17. $7y + 4y^3 - 2y^2 + 3$ | <u>three</u> | 18. $-5x^3 + 3x^4 - 8x + 1$ | _____ |
| 19. $2x^2 + 3xy + 5y^2$ | _____ | 20. $9x^3 - 2xy + 7xyz^2 - 9$ | _____ |
| 21. $4x^3yz - 3xyz + 7xy^2z$ | _____ | 22. $13xy^2z + 2x^2y^2z - 8xyz$ | _____ |

Write each polynomial in descending powers of the variable.

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|-----------------------------|---|
| 23. $14x + 2 - 3x^2 + 5x^3$ | <u>$5x^3 - 3x^2 + 14x + 2$</u> |
| 24. $8z^2 - 2z + 7 - 9z^3$ | _____ |
| 25. $2y - 7y^5 + 3y^2 + 2$ | _____ |
| 26. $x^3 - 2x^2 + 7x^5 + 4$ | _____ |