Adding and Subtracting Polynomials

Find the degree of each monomial.

1 . $2b^2c^2$	2 . 5 <i>x</i>	3 . $7y^5$	4 . 19 <i>ab</i>
5 . 12	$\frac{1}{2}z^2$	7. <i>t</i>	8 . 4d ⁴ e

Simplify.

9. $2a^{3}b + 4a^{3}b$	10. $5x^3 - 4x^3$	11. $3m^6n^3 - 5m^6n^3$
12. –6 <i>ab</i> + 3 <i>ab</i>	13. $4c^2d^6 - 7c^2d^6$	14. $315x^2 - 30x^2$

Write each polynomial in standard form. Then name each polynomial based on its degree and number of terms.

15. $15x - x^3 + 3$	16. $5x + 2x^2 - x + 3x^4$	17. 9 <i>x</i> ³
18 . 7 <i>b</i> ² + 4 <i>b</i>	19. $-3x^2 + 11 + 10x$	20. $12t^2 + 1 - 3x + 8 - 2x$

Simplify.

21.	8 <i>z</i> – 12	22.	$9x^3 + 3$	23.	$6j^2 - 2j + 5$
+	6z + 9	+	$+4x^3+7$		$+ 3j^2 + 4j - 6$

24. $(3k^2 + 5) + (16x^2 + 7)$ **25.** $(g^4 - 4g^2 + 11) + (-g^3 + 8g)$