Algebra 1 Quiz Review Sec 9-1to 9-4 Spring 2015

For each polynomial give it's name based on

a) the degree b) the number of terms

1. $14x^3 + 7x$ 2. $19c$ 3. $12x^2 - 7x + 3$ 4. -3.7

5. State the degree of each a) $42c^6d^3$ b) $3x^4 - 7x^3 + 8x$

6. Write this polynomial in standard form.

$42c^2 - 8c^5 + 2 - 9c^4 - c$

Factor each using GCF.

7. $60A + 15$ 8. $H^6 - 12H^4$

9. $24C^5D^2 + 15C^3D^6$ 10. $36A^5B^2C + 18A^4B^3C^5 - 54AB^4C^7$

Expand each. For polynomials with one variable write the answer in standard form.

11. $6k^3(5k^2 - 9k)$ 12. $3C^2D^5(4CD + 8C^3D^3)$ 13. $(M+3)(9+M)$

14. $(W-7)(W-4)$ 15. $(Q-10)(Q+2)$ 16. $(5E+8)(2E-5)$

17. $(4P + 5R)(2P - 3R)$ 18. $(5A^2 - 2B)(A^2 - 7B)$

19. $(N+7)(N-7)$ 20. $(8G+5)(8G-5)$ 21. $(2c^3 - 7d^2)(2c^3 + 7d^2)$

22. $(R-6)(2R^2 + 4R + 3)$ 23. $(Y-9)^2$ 24. $(c+7)^2$

25. $(3m-8)^2$ 26. $(6J^4 + 5K)^2$

ANSWERS Alg 1 Quiz Review Sec 9-1to 9-4 Spring 2015

1. $14x^3 + 7x$ a) cubic b) binomial

2. $19c$ a) linear b) monomial

3. $12x^2 - 7x + 3$ a) quadratic b) trinomial

4. -3.7 a) constant b) monomial

5. a) $42c^6d^3$ degree=9 b) $3x^4 - 7x^3 + 8x$ degree=4

6. $-8c^5 - 9c^4 + 42c^2 - c + 2$

7. $15(4A + 1)$ 8. $H^4(H^2 - 12)$

9. $3C^3D^2(5D^4 + 8C^2)$ 10. $18AB^2C(-3B^2C^6 + 2A^4 + A^3BC^4)$

11. $30k^5 - 54k^4$ 12. $24C^5D^8 + 12C^3D^6$

13. $M^2 + 12M + 27$ 14. $W^2 - 11W + 28$

15. $Q^2 - 8Q - 20$ 16. $10E^2 - 9E - 40$

17. $8P^2 - 2PR - 15R^2$ 18. $5A^4 - 37A^2B + 14B^2$

19. $N^2 - 49$ 20. $64G^2 - 25$ 21. $4c^6 - 49d^4$

22. $2R^3 - 8R^2 - 21R - 18$ 23. $Y^2 - 18Y + 81$

24. $c^2 + 14c + 49$ 25. $9m^2 - 48m + 64$

26. $36J^8 + 60J^4K + 25K^2$