Algebra 1 Bellwork Tuesday, March 17, 2015

Write each polynomial in Standard Form.

1. $64x^2 - 37 - 2x^3 + 19x$

2. $4(x - 8) - 5x(3x + 2)$

Find the degree of each.

3. $55a^4b^2$

4. $9x + 13x^4 - 20x^3 + 11 - 43x^2$

Give the name of each polynomial by its degree.

5. $9x$

6. $-3x^2 + 6x - 1$

7. $11x^3 + 4x$

8. -105

9. $18x^4 + 7x^3 - 30x + 13$

Give the name of each polynomial by the number of terms it has.

10. $8x^2 - 4x + x^2$

11. $81x^3$

12. $4x^2 - 3x + 1$

13. $11x^5 + 9x^4 - 6x^2 + 14$

14. Use these two polynomials: $f(x) = 7x^2 - x + 13$ $g(x) = 10x^2 + 3x - 2$
Find this difference: $f(x) - g(x) =$

15. Expand. $-4a^3(6a^2 - 2a + 7) =$

Algebra 1 Bellwork Tuesday, March 17, 2015 ANSWERS

Write each polynomial in Standard Form.

1. $64x^2 - 37 - 2x^3 + 19x$

$-2x^3 + 64x^2 + 19x - 37$

2. $4(x-8) - 5x(3x+2)$

$4x - 32 - 15x^2 - 10x$

$-15x^2 - 6x - 32$

Find the degree of each.

3. $55a^4b^2$

6

4. $9x + 13x^4 - 20x^3 + 11 - 43x^2$

4

Give the name of each polynomial by its degree.

5. $9x$

Linear

6. $-3x^2 + 6x - 1$

Quadratic

7. $11x^3 + 4x$

Cubic

8. -105

Constant

9. $18x^4 + 7x^3 - 30x + 13$

4th degree

Give the name of each polynomial by the number of terms it has.

10. $8x^2 - 4x + x^2 = 9x^2 - 4x$

Binomial

11. $81x^3$

Monomial

12. $4x^2 - 3x + 1$

Trinomial

13. $11x^5 + 9x^4 - 6x^2 + 14$

4 terms

14. Use these two polynomials: $f(x) = 7x^2 - x + 13$ $g(x) = 10x^2 + 3x - 2$

Find this difference: $f(x) - g(x) =$

$(7x^2 - x + 13) - (10x^2 + 3x - 2)$

$-3x^2 - 4x + 15$

15. Expand. $-4a^3(6a^2 - 2a + 7) =$

$-24a^5 + 8a^4 - 28a^3$