# Algebra 1 Bellwork Friday, April 15, 2016

Use your answers to Hwk #15 (Sec 9-1 in the book) to help you with this Bellwork.

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

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. $-4a^3b^5(6a^2 - 2ab^3 + 7b^4) =$

# Algebra 1 Bellwork Friday, April 15, 2016

Answers

Use your answers to Hwk #15 (Sec 9-1 in the book) to help you with this Bellwork.

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. $55a^4b^2$

degree = 6

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

degree = 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. $11x^5 + 9x^4 - 6x^5 + 14$

$= 5x^5 + 9x^4 + 14$

trinomial

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. $-4a^3b^5(6a^2 - 2ab^3 + 7b^4) =$

$-24a^5b^5 + 8a^4b^8 - 28a^3b^9$