10-31-18

Aim: SWBAT continue to add and subtract polynomials.

HW: Packet Page 11

Quiz Friday (Packet Pages 1 - 11)

Do Now: Packet Page 8

HOMEWORK - FINDING THE SUM or DIFFERENCE

Find each sum OR difference.

1) $(2a - 6) + (3a + 8)$

$2a - 6 + 3a + 8$

$5a + 2$

2) $(9m + 7n) + (-4m + 3n)$

$9m + 7n - 4m + 3n$

$5m + 10n$

3) $(2x + 4y - 1) + (-x - 7 - 6y)$

$2x + 4y - 1 - x - 7 - 6y$

$x - 2y - 8$

4) $(3p + 2r) + (12r - 2p + 7)$

$3p + 2r + 12r - 2p + 7$

$p + 14r + 7$

5) $(2k + 3kn) + (-6kn + 4k)$

$2k + 3kn - 6kn + 4k$

$6k - 3kn$

6) $(7u^2 - 10r) + (-3u^2 + 8 - 2r)$

$7u^2 - 10r - 3u^2 + 8 - 2r$

$4u^2 - 12r + 8$

7) $(3x + 2) - (5x - 1)$

$3x + 2 - 5x + 1$

$-2x + 3$

8) $(4r + 2u) - (-7r - 87)$

$4r + 2u + 7r + 87$

$11r + 2u + 87$

9) $(3c + 7d - 5) - (6d + 4 - 2c)$

$3c + 7d - 5 - 6d - 4 + 2c$

$5c + d - 9$

10) $(7x - 3y + 9) - (4y - 8)$

$7x - 3y + 9 - 4y + 8$

$7x - 7y + 17$

11) $(7ax + 13by + 5) - (-3ax + 4)$

$7ax + 13by + 5 + 3ax - 4$

$10ax + 13by + 1$

12) $(2a^3 + 7a^2b + b^3) - (a^3 + 7b^3)$

$2a^3 + 7a^2b + b^3 - a^3 - 7b^3$

$a^3 + 7a^2b - 6b^3$

DO NOW - Polynomial Review

Classify the following polynomial.

1) $2x^2 - 9x + 24$ _____

Write the polynomial in STANDARD FORM and state the degree.

2) $7x^5 + x^7 - 4x^2$ _____

Simplify each polynomial.

3) $9x^2 + 7x - 3 + 7x^2 - 9x + 2$

4) $-2y(2y - 5y^2 + 3) + 6y^2 - 9y + 7$

State the coefficient of the following monomials and the degree.

5) $-8x^2y^3$ _____ _____

6) $12m^2n^4$ _____ _____

7) 24 _____ _____

ADD the polynomial.

8) $(7y^2 + 5y - 8) + (8y^2 - y + 5)$

SUBTRACT the polynomial.

9) $(9x^2 - 5x + 25) - (4x^2 + 8x + 15)$

DO NOW - Polynomial Review

Classify the following polynomial.

1) $2x^2 - 9x + 24$ trinomial

Write the polynomial in STANDARD FORM and state the degree.

2) $7x^5 + x^7 - 4x^2$ $x^7 + 7x^5 - 4x^2$

degree = 7

Simplify each polynomial.

3) $9x^2 + 7x - 3 + 7x^2 - 9x + 2$

$9x^2 + 7x - 3 + 7x^2 - 9x + 2$

$9x^2 + 7x^2 + 7x - 9x - 3 + 2$

$16x^2 - 2x - 1$

4) $-2y(2y - 5y^2 + 3) + 6y^2 - 9y + 7$

$-4y^2 + 10y^3 - 6y + 6y^2 - 9y + 7$

$10y^3 - 4y^2 + 6y^2 - 6y - 9y + 7$

$10y^3 + 2y^2 - 15y + 7$

State the coefficient of the following monomials and the degree.

5) $-8x^2y^3$ -8 5

6) $12m^2n^4$ 12 6

7) 24 none 0

ADD the polynomial.

8) $(7y^2 + 5y - 8) + (8y^2 - y + 5)$

$7y^2 + 5y - 8 + 8y^2 - y + 5$

$15y^2 + 4y - 3$

SUBTRACT the polynomial.

9) $(9x^2 - 5x + 25) - (4x^2 + 8x + 15)$

$9x^2 - 5x + 25 - 4x^2 - 8x - 15$

$5x^2 - 13x + 10$

8

AIM: SWBAT add or subtract polynomials.

Add or subtract the following polynomials.

1) $(-2x^2 + 4x - 12) + (5x^2 - 5x)$

2) $(3y^2 - 9y) - (-5y^2 + 7y - 7)$

3) $(3x^2 - 2x + 1) - (4x^3 - 5x - 8)$

4) $(6x^3 - 2x^2 - 12) + (6x^2 + 3x + 8)$

5) $(x^2 - x - 4) - (3x^2 - 4x + 5)$

6) $(x^3 - x^2 + 3) - (3x^2 - 4x + 5)$

7) $(4x^2 + 2x - 3) - (2x^2 - 5x - 3)$

8) $(x^2 + 5x - 24) + (-x^2 - 4x + 9)$

9) $(x^3 + 9x - 5) - (-4x^2 - 12x - 5)$

10) $-d^2 + [9d + (2 - 4d^2)]$

$-d^2 + [9d + 2 - 4d^2]$

$-d^2 + 9d + 2 - 4d^2$

$-5d^2 + 9d + 2$

9

AIM: SWBAT add or subtract polynomials.

Add or subtract the following polynomials.

1) $(-2x^2 + 4x - 12) + (5x^2 - 5x)$

$-2x^2 + 4x - 12 + 5x^2 - 5x$

$3x^2 - x - 12$

2) $(3y^2 - 9y) - (-5y^2 + 7y - 7)$

$3y^2 - 9y + 5y^2 - 7y + 7$

$8y^2 - 16y + 7$

3) $(3x^2 - 2x + 1) - (4x^3 - 5x - 8)$

$3x^2 - 2x + 1 - 4x^3 + 5x + 8$

$-4x^3 + 3x^2 + 3x + 9$

4) $(6x^3 - 2x^2 - 12) + (6x^2 + 3x + 8)$

$6x^3 - 2x^2 - 12 + 6x^2 + 3x + 8$

$6x^3 + 4x^2 + 3x - 4$

5) $(x^2 - x - 4) - (3x^2 - 4x + 5)$

$x^2 - x - 4 - 3x^2 + 4x - 5$

$-2x^2 + 3x - 9$

6) $(x^3 - x^2 + 3) - (3x^2 - 4x + 5)$

$x^3 - x^2 + 3 - 3x^2 + 4x - 5$

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

7) $(4x^2 + 2x - 3) - (2x^2 - 5x - 3)$

$4x^2 + 2x - 3 - 2x^2 + 5x + 3$

$2x^2 + 7x$

8) $(x^2 + 5x - 24) + (-x^2 - 4x + 9)$

$x^2 + 5x - 24 - x^2 - 4x + 9$

$x - 15$

9) $(x^3 + 9x - 5) - (-4x^2 - 12x - 5)$

$x^3 + 9x - 5 + 4x^2 + 12x + 5$

$x^3 + 4x^2 + 21x$

10) $-d^2 + [9d + (2 - 4d^2)]$

$-d^2 + 9d + 2 - 4d^2$

$-5d^2 + 9d + 2$

11) $(4x^2 + 6x + 3) + (3x^2 - 3x - 2) + (-4x^2 + 3x - 9)$

12) $(7x^2 + 2x + 7) - (4x^2 - 2x + 3) + (-5x^2 + 6x + 7)$

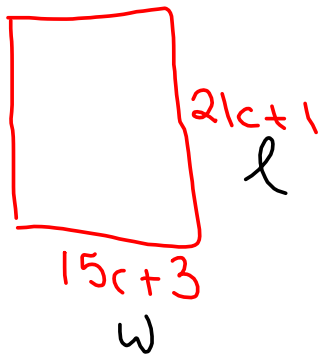
13) $(3x^3 - 5x^2 - 9) - (5x^3 - 5x - 4) - (5x^3 - 4x^2 - 9)$

$3x^3 - 5x^2 - 9 - 5x^3 + 5x + 4 - 5x^3 + 4x^2 + 9$

$-7x^3 - x^2 + 5x + 4$

14) $(2x^2 - 9x + 8) - (2x^3 - 4x^2 - 8x - 2) + (-5x^3 - 6x - 10)$

15) Camilla is putting ribbon around the edge of her scrapbook. The dimensions of the rectangular page can be represented by 15c + 3 inches wide by 21c + 1 inches long. How much ribbon will Camilla need to go once around the perimeter of her scrapbook? (Draw a diagram)



$P = 2l + 2w$

$P = 2(21c+1) + 2(15c+3)$

$P = 42c + 2 + 30c + 6$

$P = 72c + 8$ inches

11) $(4x^2 + 6x + 3) + (3x^2 - 3x - 2) + (-4x^2 + 3x - 9)$

$4x^2 + 6x + 3 + 3x^2 - 3x - 2 - 4x^2 + 3x - 9$

$3x^2 + 6x - 8$

12) $(7x^2 + 2x + 7) - (4x^2 - 2x + 3) + (-5x^2 + 6x + 7)$

$7x^2 + 2x + 7 - 4x^2 + 2x - 3 - 5x^2 + 6x + 7$

$-2x^2 + 10x + 11$

13) $(3x^3 - 5x^2 - 9) - (5x^3 - 5x - 4) - (5x^3 - 4x^2 - 9)$

$3x^3 - 5x^2 - 9 - 5x^3 + 5x + 4 - 5x^3 + 4x^2 + 9$

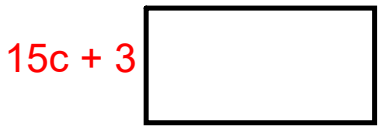
$-7x^3 - x^2 + 5x + 4$

14) $(2x^2 - 9x + 8) - (2x^3 - 4x^2 - 8x - 2) + (-5x^3 - 6x - 10)$

$2x^2 - 9x + 8 - 2x^3 + 4x^2 + 8x + 2 - 5x^3 - 6x - 10$

$-7x^3 + 6x^2 - 7x$

15) Camilla is putting ribbon around the edge of her scrapbook. The dimensions of the rectangular page can be represented by 15c + 3 inches wide by 21c + 1 inches long. How much ribbon will Camilla need to go once around the perimeter of her scrapbook? (Draw a diagram)



$15c + 3 + 15c + 3 + 21c + 1 + 21c + 1$

$72c + 8$

Camilla needs 72c + 8 inches of ribbon

10

HOMEWORK – ADD or SUBTRACT POLYNOMIALS

Add or subtract the following polynomials.

1) $(x^2 + 3x + 2) + (3x^2 + 4x - 9)$

2) $(6m^2 + 2m - 3) - (7m^2 + 4)$

3) $(5ab + 2ac - 6bc) + (-4ac + 2bc)$

4) $(6x^2 - 3x + 1) + (3x^3 + 4x^2 - 5x)$

5) $(2a^2 + 4a - 1) - (a - 6a^2 + 2)$

6) $(6r^2x + 5rx^2) - (9rx^2 - 9r^2x)$

7) $(5n^2 + 2n - 9) + (3n^2 - 4)$

8) $(3p^2 - p - 1) + (p^2 + p - 4)$

9) $(x + 15y - 9z) - (7x - 8y + z)$

10) $(4r^2 - r + 8) - (r^2 + 6r - 1)$

11) $(4x^3 + 5x^2 - 2x - 5) - (3x^3 - 4x + 2)$

12) $(2mn + 3a + 7d) + (-5mn + 7a)$

11

HOMEWORK – ADD or SUBTRACT POLYNOMIALS

Add or subtract the following polynomials.

1) $(x^2 + 3x + 2) + (3x^2 + 4x - 9)$

$x^2 + 3x + 2 + 3x^2 + 4x - 9$

$4x^2 + 7x - 7$

2) $(6m^2 + 2m - 3) - (7m^2 + 4)$

$6m^2 + 2m - 3 - 7m^2 - 4$

$-m^2 + 2m - 7$

3) $(5ab + 2ac - 6bc) + (-4ac + 2bc)$

$5ab + 2ac - 6bc - 4ac + 2bc$

$5ab - 2ac - 4bc$

4) $(6x^2 - 3x + 1) + (3x^3 + 4x^2 - 5x)$

$6x^2 - 3x + 1 + 3x^3 + 4x^2 - 5x$

$3x^3 + 10x^2 - 8x + 1$

5) $(2a^2 + 4a - 1) - (a - 6a^2 + 2)$

$2a^2 + 4a - 1 - a + 6a^2 - 2$

$8a^2 + 3a - 3$

6) $(6r^2x + 5rx^2) - (9rx^2 - 9r^2x)$

$6r^2x + 5rx^2 - 9rx^2 + 9r^2x$

$15r^2x - 4rx^2$

7) $(5n^2 + 2n - 9) + (3n^2 - 4)$

$5n^2 + 2n - 9 + 3n^2 - 4$

$8n^2 + 2n - 13$

8) $(3p^2 - p - 1) + (p^2 + p - 4)$

$3p^2 - p - 1 + p^2 + p - 4$

$4p^2 - 5$

9) $(x + 15y - 9z) - (7x - 8y + z)$

$x + 15y - 9z - 7x + 8y - z$

$-6x + 23y - 10z$

10) $(4r^2 - r + 8) - (r^2 + 6r - 1)$

$4r^2 - r + 8 - r^2 - 6r + 1$

$3r^2 - 7r + 9$

11) $(4x^3 + 5x^2 - 2x - 5) - (3x^3 - 4x + 2)$

$4x^3 + 5x^2 - 2x - 5 - 3x^3 + 4x - 2$

$x^3 + 5x^2 + 2x - 7$

12) $(2mn + 3a + 7d) + (-5mn + 7a)$

$2mn + 3a + 7d - 5mn + 7a$

$10a + 7d - 3mn$

11