

## Math Worksheets

## Operations with Polynomials

 Find each product.

1)  $4(5x + 3) =$  \_\_\_\_\_

9)  $7(x^2 + 5x - 3) =$  \_\_\_\_\_

2)  $8(2x + 6) =$  \_\_\_\_\_

10)  $9(5x^2 - 7x + 5) =$  \_\_\_\_\_

3)  $2(5x - 2) =$  \_\_\_\_\_

11)  $3(3x^2 + 3x + 2) =$  \_\_\_\_\_

4)  $-4(7x - 3) =$  \_\_\_\_\_

12)  $5x(3x^2 + 5x + 8) =$  \_\_\_\_\_

5)  $3x^2(9x + 1) =$  \_\_\_\_\_

13)  $(5x + 7)(3x - 3) =$  \_\_\_\_\_

6)  $4x^6(7x - 9) =$  \_\_\_\_\_


14)  $(9x + 3)(3x - 5) =$  \_\_\_\_\_

7)  $3x^4(-7x + 3) =$  \_\_\_\_\_

15)  $(6x + 3)(4x - 2) =$  \_\_\_\_\_

8)  $-8x^4(5x - 8) =$  \_\_\_\_\_

16)  $(7x - 2)(3x + 5) =$  \_\_\_\_\_

 Calculate each problem.

17) The measures of two sides of a triangle are  $(2x + 5y)$  and  $(6x - 3y)$ . If the perimeter of the triangle is  $(13x + 4y)$ , what is the measure of the third side?  
\_\_\_\_\_

18) The height of a triangle is  $(8x + 5)$  and its base is  $(4x - 3)$ . What is the area of the triangle? \_\_\_\_\_

19) One side of a square is  $(6x + 2)$ . What is the area of the square? \_\_\_\_\_

20) The length of a rectangle is  $(5x - 8y)$  and its width is  $(15x + 8y)$ . What is the perimeter of the rectangle? \_\_\_\_\_

21) The side of a cube measures  $(x + 2)$ . What is the volume of the cube? \_\_\_\_\_

22) If the perimeter of a rectangle is  $(28x + 6y)$  and its width is  $(5x + 2y)$ , what is the length of the rectangle? \_\_\_\_\_

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## Answers of Worksheets

### Operations with Polynomials

1)  $20x + 12$

2)  $16x + 48$

3)  $10x - 4$

4)  $-28x + 12$

5)  $27x^3 + 3x^2$

6)  $28x^7 - 36x^6$

7)  $-21x^5 + 9x^4$

8)  $-40x^5 + 64x^4$

9)  $7x^2 + 35x - 21$

10)  $45x^2 - 63x + 45$

11)  $9x^2 + 9x + 6$

12)  $15x^3 + 25x^2 + 40x$

13)  $15x^2 + 6x - 21$

14)  $27x^2 - 36x - 15$

15)  $24x^2 - 6$

16)  $21x^2 + 29x - 10$

17)  $(5x + 2y)$

18)  $16x^2 - 2x - \frac{15}{2}$

19)  $36x^2 + 24x + 4$

20)  $40x$

21)  $x^3 + 6x^2 + 12x + 8$

22)  $(9x + y)$

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