

Math Worksheets

Name: _____ Date: ____

Operations with Polynomials

Find each product.

1)
$$9(6x + 2) =$$

2)
$$8(3x + 7) =$$

3)
$$5(6x - 1) =$$

4)
$$-3(8x-3) =$$

5)
$$3x^2(6x-5) =$$

6)
$$5x^2(7x-2) =$$

7)
$$6x^3(-3x+4) =$$

8)
$$-7x^4(2x-4) =$$

9)
$$8(x^2 + 2x - 3) =$$

10)
$$4(4x^2 - 2x + 1) =$$

11)
$$2(3x^2 + 2x - 2) =$$

$$12) 8x(5x^2 + 3x + 8) = \underline{\hspace{1cm}}$$

13)
$$(9x + 1)(3x - 1) =$$

14)
$$(4x + 5)(6x - 5) =$$

15)
$$(7x + 3)(5x - 6) =$$

16)
$$(3x - 4)(3x + 8) =$$

Solve each problem.

- 17) The measures of two sides of a triangle are (2x + 3y) and (5x 2y). If the perimeter of the triangle is (12x + 5y), what is the measure of the third side?
- 18) The height of a triangle is (4x + 5) and its base is (2x 2). What is the area of the triangle?
- 19) One side of a square is (6x + 9). What is the area of the square?
- 20) The length of a rectangle is (5x 2y) and its width is (12x + 2y). 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 (16x + 8y) and its width is (2x + y), what is the length of the rectangle? _____

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Answers

Operations with Polynomials

1)
$$54x + 18$$

2)
$$24x + 56$$

3)
$$30x - 5$$

4)
$$-24x + 9$$

5)
$$18x^3 - 15x^2$$

6)
$$35x^3 - 10x^2$$

7)
$$-18x^4 + 24x^3$$

8)
$$-14x^5 + 28x^4$$

9)
$$8x^2 + 16x - 24$$

10)
$$16x^2 - 8x + 4$$

11)
$$6x^2 + 4x - 4$$

12)
$$40x^3 + 24x^2 + 64x$$

13)
$$27x^2 - 6x - 1$$

14)
$$24x^2 + 10x - 25$$

15)
$$35x^2 + 27x - 18$$

16)
$$9x^2 + 12x - 32$$

17)
$$(5x + 4y)$$

18)
$$8x^2 + 2x - 10$$

19)
$$36x^2 + 108x + 81$$

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

22)
$$(6x + 3y)$$

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