



Simplifying Polynomials

Name: _____

Date: _____



Simplify each expression.

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

2) $6(8r - 5) =$

3) $(2v + 6)(4v) =$

4) $a^2 - 2a + 5a^3 + 1 - 10a =$

5) $x(-2x + 5x^2) =$

6) $2x^3 - 4x^3 + 2x^4 + 1 =$

7) $3y^2(1 - y - 2y^2) =$

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

9) $-5g(3 - 2g^2) =$

10) $1 + 3x + 4x^2 - 5x + 8 =$

11) $3a + b - 4b + 5a =$

12) $(7n + 8)(-4) =$

13) $-2x^3 + 8x^3 + 9x^3 + 5 =$

14) $(3x + 4)(3x) =$

15) $5m^2 - 7m^3 + 3m^2 + 3 =$

16) $3x(1 + 6x - 5) =$

17) $(2x - 6)(7x) =$

18) $12x + 10 - 2x - 8 =$

19) $5x + 10 - 2x + 5 =$

20) $2x(3x + 5) =$



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Answers



Simplify each expression.

$$1) 3x^2 - 5x^3 - x(2x^2 + 4x) = -7x^3 - x^2$$

$$2) 6(8r - 5) = 48r - 30$$

$$3) (2v + 6)(4v) = 8v^2 + 24v$$

$$4) a^2 - 2a + 5a^3 + 1 - 10a = 5a^3 + a^2 - 12a + 1$$

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

$$6) 2x^3 - 4x^3 + 2x^4 + 1 = 2x^4 - 2x^3 + 1$$

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

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

$$9) -5g(3 - 2g^2) = 10g^3 - 15g$$

$$10) 1 + 3x + 4x^2 - 5x + 8 = 4x^2 - 2x + 9$$

$$11) 3a + b - 4b + 5a = 8a - 3b$$

$$12) (7n + 8)(-4) = -28n - 32$$

$$13) -2x^3 + 8x^3 + 9x^3 + 5 = 15x^3 + 5$$

$$14) (3x + 4)(3x) = 9x^2 - 12$$

$$15) 5m^2 - 7m^3 + 3m^2 + 3 = -7m^3 + 8m^2 + 3$$

$$16) 3x(1 + 6x - 5) = 18x^2 - 12x$$

$$17) (2x - 6)(7x) = 14x^2 - 42x$$

$$18) 12x + 10 - 2x - 8 = 10x + 2$$

$$19) 5x + 10 - 2x + 5 = 3x + 15$$

$$20) 2x(3x + 5) = 6x^2 + 10x$$



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