Name:

Date:

Simplifying Polynomials

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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Simplifying Polynomials

Name:

Date:

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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