

Name : _____

Simplifying Polynomial Expressions

MS5

Simplify each expression.

1) $9(2z - 5) - 2(3z + 6) + 4z(2z)$

2) $\frac{3}{2}(2n^2 + 6n^3 - 8n^2)$

3) $(13y^3 + 4y^2)(2y^2 + 5y)$

4) $c^6 + 2(c^6 - 5c^8) - c(4 + 8c)$

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

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$- 3b^4) - \frac{12}{5}(5b^3)$

7) $11(7r^2 - 10r^7 + 7r^5)$

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$+ 5s^3) + 42$

9) $\frac{10}{3}(-9d^7 + 2d^9 - 6d^7 - 8d^9)$

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

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Answer key

MS5

Simplifying Polynomial Expressions

Simplify each expression.

1) $9(2z - 5) - 2(3z + 6) + 4z(2z)$

$8z^2 + 12z - 57$

2) $\frac{3}{2}(2n^2 + 6n^3 - 8n^2)$

$9n^3 - 9n^2$

3) $(13y^3 + 4y^2)(2y^2 + 5y)$

$20y^3 + 73y^4 + 20y^5 + 20y^6$

4) $c^6 + 2(c^6 - 5c^8) - c(4 + 8c)$

$3c^6 - 10c^8$

5) $5a(6a^7 - 4a^9 + 3a^{10})$

$-20a^{10} + 45a^8 + 15a^{11}$

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$-3b^4) - \frac{12}{5}(5b^3)$

7) $11(7r^2 - 10r^7 + 7r^9)$

$-60r^7 + 77r^3 + 52r^9$

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$+ 14b^2$

$+ 5s^3) + 42$

9) $\frac{10}{3}(-9d^7 + 2d^9 - 6d^7 - 8d^9)$

$-20d^9 - 50d^7$

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

$2x^6 - 26x^5 + 54x^4$

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