

# Simplifying Polynomial Expressions

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Simplify the following polynomial expressions.

1)  $4r^2 + 2 - 5r^2 + 6r^8 - 13 - r^8$

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2)  $7x^6 + 2x^2(-5x^4 + 9) - 10x^2$

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

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4)  $-15 + 8a^4 + a(3a^2 + 5a^3) + 11$

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5)  $14 - 5(2u^2 - 12u^3) - 3u^3 - 8$

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6)  $9t^5 + 6(-2t^4 + 3t^5 - 4) + 13$

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7)  $-11 - 9(2v^7 + 7v^2) + 8v^2 + 1$

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8)  $-k(-6k^9 - 15) + 10 - 12k^{10} - 5$

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