

Simplifying Algebraic Expressions Practice

Simplify the expression

① $b(5a^2 + 2) + b(2a^2 + 5)$

② $3y^2 - 6y + 2 + 3y^2 + 8y$

③ $40x^2 - 20x + 48x - 24$

④ $7s^6 - 5s^8 + 2s + 3s^8 - 15$

⑤ $4b^3 - 2b^2 - 5(8b^3 + 6)$

⑥ $x^2 + 5x - 5x - 25$

⑦ $-4(5 - 2x) - 7x(8 - 6x)$

⑧ $-9(6m - 3) + 6(1 + 4m)$

⑨ $-5x - 2(2x - 4) - 5$

⑩ $n(-8n + 8) - 8(n + 1)$

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Answers

① $b(5a^2 + 2) + b(2a^2 + 5)$

$7a^2b + 7b$

② $3y^2 - 6y + 2 + 3y^2 + 8y$

$6y^2 + 2y + 2$

③ $40x^2 - 20x + 48x - 24$

$40x^2 + 28x - 24$

④ $7s^6 - 5s^8 + 2s + 3s^8 - 15$

$-2s^8 + 7s^6 + 2s - 15$

⑤ $4b^3 - 2b^2 - 5(8b^3 + 6)$

$-36b^3 - 2b^2 - 30$

⑥ $x^2 + 5x - 5x - 25$

$x^2 - 25$

⑦ $-4(5 - 2x) - 7x(8 - 6x)$

$42x^2 - 48x - 20$

⑧ $-9(6m - 3) + 6(1 + 4m)$

$-30m + 33$

⑨ $-5x - 2(2x - 4) - 5$

$-9x + 3$

⑩ $n(-8n + 8) - 8(n + 1)$

$-8n^2 - 8$
