

Simplifying Expressions Using Distributive Property

Use the distributive property to simplify the given expressions.

① $6(-8n + 5) - 4n$

② $2(2 - 4x) - 2$

③ $-(4 + 8x) - 3$

④ $-x(x - 3) + x(-2x - 8)$

⑤ $-7x(6 - 4x) - 2x(5x + 8)$

⑥ $8(8x + 8) + 3x$

⑦ $-4(p + 6) - (1 + 2p)$

⑧ $q(1 + 10q) - q(4q - 3)$

⑨ $5(-3l + 7) + 5(l - 1)$

⑩ $8(m + 8) + 11(3m + 4)$

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Answers

$$\textcircled{1} \quad 6(-8n + 5) - 4n$$

$$-52n + 30$$

$$\textcircled{3} \quad -(4 + 8x) - 3$$

$$-7 - 8x$$

$$\textcircled{5} \quad -7x(6 - 4x) - 2x(5x + 8)$$

$$-58x + 18x^2$$

$$\textcircled{7} \quad -4(p + 6) - (1 + 2p)$$

$$-6p - 25$$

$$\textcircled{9} \quad 5(-3l + 7) + 5(l - 1)$$

$$-10l + 30$$

$$\textcircled{2} \quad 2(2 - 4x) - 2$$

$$2 - 8x$$

$$\textcircled{4} \quad -x(x - 3) + x(-2x - 8)$$

$$-3x^2 - 5x$$

$$\textcircled{6} \quad 8(8x + 8) + 3x$$

$$67x + 64$$

$$\textcircled{8} \quad q(1 + 10q) - q(4q - 3)$$

$$4q + 6q^2$$

$$\textcircled{10} \quad 8(m + 8) + 11(3m + 4)$$

$$41m + 108$$