

# Simplifying Expressions Using Distributive Property

Simplify the given expressions.

①  $6(x + 1) - 4a(8a + 5)$

②  $9(3 - 10p) - 3(10p + 1)$

③  $4(-5x + 4) - (2y - 3)$

④  $5q + 7p - 8(2q - 5p)$

⑤  $-5(2y + 4) - 6(3y - 8)$

⑥  $3(p + 4) + 2(3p - 9)$

⑦  $6(3y + 11z - 4z)$

⑧  $-(4 + 6x) - 3$

⑨  $-4(x + 6) + 8(x + 6)$

⑩  $-2q(q + 8) + 6(5 + 2q)$

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## Answers

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

$$6x + 6 - 32a^2 - 20a$$

$$\textcircled{3} \quad 4(-5x + 4) - (2y - 3)$$

$$-20x - 2y + 19$$

$$\textcircled{5} \quad -5(2y + 4) - 6(3y - 8)$$

$$-28y + 28$$

$$\textcircled{7} \quad 6(3y + 11z - 4z)$$

$$18y + 42z$$

$$\textcircled{9} \quad -4(x + 6) + 8(x + 6)$$

$$4x + 24$$

$$\textcircled{2} \quad 9(3 - 10p) - 3(10p + 1)$$

$$-120p + 24$$

$$\textcircled{4} \quad 5q + 7p - 8(2q - 5p)$$

$$-11q + 47p$$

$$\textcircled{6} \quad 3(p + 4) + 2(3p - 9)$$

$$9p - 6$$

$$\textcircled{8} \quad -(4 + 6x) - 3$$

$$-7 - 6x$$

$$\textcircled{10} \quad -2q(q + 8) + 6(5 + 2q)$$

$$-2q^2 - 4q + 30$$