

Name : _____

Distributive Property & Combining Like Terms

First use distributive property, then combine like terms to simplify each expression.

① $6x - 2(x + 4)$

② $-9 + 2(1 - 3s)$

③ $9(-6a + 3) - 4$

④ $3x + 3(1 + 8x)$

⑤ $-(-n + 2) - 2n$

⑥ $(s - 3)7.2 + 3s$

⑦ $\frac{1}{2} + 3(2u + \frac{1}{2})$

⑧ $2x + 3(x - 1)$

⑨ $-9(1 - 9a) + 7(2 + 9a)$

⑩ $\frac{1}{2}(3x - 9) + 13x$

⑪ $-(y + 3) + 8(1 - 6y)$

⑫ $-3(8x + 4) + \frac{1}{2}(6x - 24)$

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Distributive Property & Combining Like Terms

Answers

① $6x - 2(x + 4)$

$4x - 8$

③ $9(-6a + 3) - 4$

$-54a + 23$

⑤ $-(-n + 2) - 2n$

$-n - 2$

⑦ $\frac{1}{2} + 3(2u + \frac{1}{2})$

$2 + 6u$

⑨ $-9(1 - 9a) + 7(2 + 9a)$

$6 + 144a$

⑪ $-(y + 3) + 8(1 - 6y)$

$-49y + 5$

② $-9 + 2(1 - 3s)$

$-7 - 6s$

④ $3x + 3(1 + 8x)$

$27x + 3$

⑥ $(s - 3)7.2 + 3s$

$10.2s - 21.6$

⑧ $2x + 3(x - 1)$

$5x - 3$

⑩ $\frac{1}{2}(3x - 9) + 13x$

$\frac{29}{2}x - \frac{9}{2}$

⑫ $-3(8x + 4) + \frac{1}{2}(6x - 24)$

$-21x - 24$