

Distributive Property: Simplify

1. $-8(x + 8) + 8(x + 7)$

2. $4x(1 + 5x) + x(3x + 7)$

3. $2(1 + x) + 8(1 - x)$

4. $-6x(x - 7) - x(x + 4)$

5. $-3x(-x + 7) + 5x(8 + 5x)$

6. $-3(x + 6) - 4(5x - 4)$

7. $x(4x - 6) - 3(x - 5)$

8. $8(4x - 4) + 5(x - 1)$

9. $-(3x + 6) - 8x(x - 6)$

10. $-7x(x + 1) + 7(5x + 6)$

Answers:

1. $-8(x + 8) + 8(x + 7)$
 -8

2. $4x(1 + 5x) + x(3x + 7)$
 $11x + 23x^2$

3. $2(1 + x) + 8(1 - x)$
 $10 - 6x$

4. $-6x(x - 7) - x(x + 4)$
 $-7x^2 + 38x$

5. $-3x(-x + 7) + 5x(8 + 5x)$
 $28x^2 + 19x$

6. $-3(x + 6) - 4(5x - 4)$
 $-23x - 2$

7. $x(4x - 6) - 3(x - 5)$
 $4x^2 - 9x + 15$

8. $8(4x - 4) + 5(x - 1)$
 $37x - 37$

9. $-(3x + 6) - 8x(x - 6)$
 $45x - 6 - 8x^2$

10. $-7x(x + 1) + 7(5x + 6)$
 $-7x^2 + 28x + 42$