

Distributive Property: Simplify

1. $5x(5x + 6) + 5(8x + 6)$

2. $4x - 5x(6x - 2)$

3. $-7(-4x + 7) + 7(x - 3)$

4. $2x^2 + 3x(8x - 8)$

5. $-5(1 - 8x) + 5(7 + 4x)$

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

7. $6(1 + 4x) - 7x(6 + 6x)$

8. $1 + 2(-7x + 7)$

9. $-4x(5x + 1 - x^2)$

10. $7x^2 - 4x(-x - 3)$

Answers:

1. $5x(5x + 6) + 5(8x + 6)$
 $25x^2 + 70x + 30$

2. $4x - 5x(6x - 2)$
 $14x - 30x^2$

3. $-7(-4x + 7) + 7(x - 3)$
 $35x - 70$

4. $2x^2 + 3x(8x - 8)$
 $26x^2 - 24x$

5. $-5(1 - 8x) + 5(7 + 4x)$
 $30 + 60x$

6. $-2x - 4x(x + 5)$
 $-22x - 4x^2$

7. $6(1 + 4x) - 7x(6 + 6x)$
 $6 - 18x - 42x^2$

8. $1 + 2(-7x + 7)$
 $15 - 14x$

9. $-4x(5x + 1 - x^2)$
 $-21x^2 - 4x$

10. $7x^2 - 4x(-x - 3)$
 $11x^2 - 12x$