

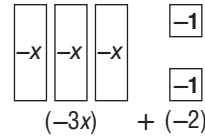
Lesson 5-7 Subtract Linear Expressions

When subtracting expressions, subtract like terms. You can use models or the additive inverse.

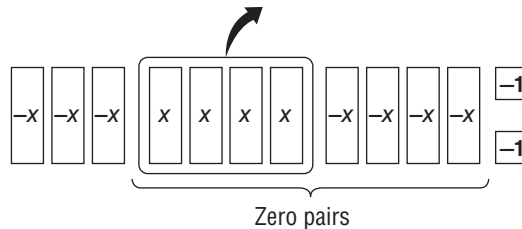
Example 1

Find $(-3x - 2) - (4x)$.

Step 1 Model the expression $-3x - 2$.



Step 2 Since there are no positive x -tiles to remove, add four zero pairs of x -tiles. Remove four positive x -tiles.



So, $(-3x - 2) - (4x) = -7x - 2$.

Example 2

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

The additive inverse of $-7x + 1$ is $7x - 1$.

$4x + 6$	Arrange like terms in columns.
$+ 7x - 1$	Add.
$11x + 5$	

So, $(4x + 6) - (-7x + 1) = 11x + 5$.

Exercises

Subtract. Use models if needed.

1. $(9x + 10) - (2x + 4)$

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

3. $(6x + 3) - (-x - 2)$

4. $(4x - 1) - (x + 3)$

Lesson 7 Skills Practice

Subtract Linear Expressions

Subtract. Use models if needed.

1. $(5x + 7) - (x + 2)$

2. $(2x - 6) - (x - 7)$

5. $(-x + 3) - (4x - 10)$

6. $(5x + 4) - (-8x - 2)$

9. $(-9x + 1) - (-7x + 8)$

10. $(-3x - 9) - (4x + 8)$

13. $(5x - 1) - (-3x + 7)$

14. $(-5x + 4) - (-9x - 2)$

17. $(x - 2) - (x - 6)$

18. $(-6x + 1) - (-3x + 1)$

21. **GEOMETRY** The perimeter of the triangle shown is $(10x + 1)$ feet. Find the length of the missing side.

