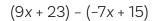
## **Subtract** Linear Expressions

You can subtract expressions using the properties of operations.

Let's try it! Simplify (9x + 23) - (-7x + 15).



(9x + 23) + (-1)(-7x + 15)

Rewrite subtraction as addition. Remember, subtracting is the same as adding the opposite.

(9x + 23) + (-1)(-7x) + (-1)(15)

Use the distributive property to distribute -1 to each of the terms in the second expression.

(9x + 23) + [7x + (-15)]

Simplify and identify like terms.

(9x + 7x) + [23 + (-15)]

Use the commutative and associative properties to reorder and group like terms.

16x + 8

Combine like terms.

## Try it yourself! Find each difference.

<b>1.</b> (2w - 3) - (6w)	<b>2.</b> (5b - 7) - (-12)
-4w - 3	5 <i>b</i> + 5
<b>3.</b> (-3m + 15) - (-9m)	<b>4.</b> (4 <i>j</i> + 11) – (20 <i>j</i> )
6m + 15	-16j + 11
	,
<b>5.</b> (-4p + 10) - (8p - 18)	<b>6.</b> (-16 <i>f</i> + 7) - (-11 <i>f</i> + 8)
-12p + 28	-5f - 1
<b>7.</b> (5n - 17) - (13n + 12)	<b>8.</b> (9t - 3) - (-4t - 17)
-8n - 29	13t + 14
0 (5 , 1) (7 , 5)	10 ( 01 10) (055 54)
9. $\left(\frac{5}{9}d + \frac{1}{6}\right) - \left(\frac{7}{9}d - \frac{5}{6}\right)$	<b>10.</b> (-8.1y - 1.9) - (0.75y - 7.4)
$-\frac{2}{9}d+1$	-8.85 <i>y</i> + 5.5