Subtract Linear Expressions

You can subtract expressions using the properties of operations.

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

(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 + <mark>23</mark>) + [7x + (-15)]	Simplify and identify like terms.
(9x + 7x) + [<mark>23</mark> + (-15)]	Use the commutative and associative properties to reorder and group like terms.
16 <i>x</i> + 8	Combine like terms.

Try it yourself! Find each difference.

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

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