SUBTRACTING REAL NUMBERS

Change subtraction to "add the opposite."

EXAMPLES: Find the difference.

1. $10 - 11$ ------> $10 + (-11)$ ------> ? -1
2. $-4 - (+2)$ ------> $-4 + 2$ ------> ? -2
3. $-6 - 7$ ------> $-6 + (-7)$ ------> ? -13
4. $9 - (+2)$ ------> $9 + 2$ ------> ? 11

5. $-3 - 5$

-8

6. $10 - 12.7$

-2.7

12.7
10.0

7. $1 - (-2) - 6$

$3 + -6$

-3

8. $-2.1 - 1.4$

-3.5

2.1
1.4

9. $11 - |-4|$

$11 - 4$

7

10. $|8| - 20$

$8 + {}^{-}20$

-12

11. $-34 - |2|$

$-34 + {}^{-}2$

-36

12. $|39| - |15|$

$39 + {}^{-}15$

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13. Evaluate the function $y = -5 - x$ when $x = -2, -1, 0$, and 1. Organize your results in a table.

Input	Function	Output
-2	$-5 - (-2)$	-3
-1	$-5 - (-1)$	-4
0	$-5 - 0$	-5
1	$-5 - 1$	-6

14. Evaluate the function y = 4 - x when x = -3, -1, 2, and 5. Organize your results in a table.

Input	Function	Output
-3	$4 - (-3)$	7
-1	$4 - (-1)$	5
2	$4 + (-2)$	2
5	$4 + (-5)$	-1

15. Evaluate the function y = x - 8 when x = -4, -2, 0, and 3. Organize your results in a table.

Input	Function	Output
-4	$(-4) + -8$	-12
-2	$(-2) + -8$	-10
0	$(0) + -8$	-8
3	$(3) + -8$	-5

16. Evaluate the function $y = -x - 6$ when $x = -4, -2, 0$, and 3. Organize your results in a table.

Input	Function	Output
-4	$-(-4) + -6$	-2
-2	$-(-2) + -6$	-4
0	$-(0) + -6$	-6
3	$-(3) + -6$	-9

When an expression is written as a sum, the parts that are added are the terms of the expression.

$-5 - x$ ⟶ $-5 + (-x)$ ⟶ so the terms are -5 and $-x$

What are the terms of the following?

17. $9 + -2x$ — $9, -2x$

18. $-6k + 7y$ — $-6k, 7y$

19. $-2t + 5b$ — $-2t, 5b$

20. $34f + -25g + 31h$ — $34f, -25g, 31h$

21. $91m + 45n + -23j$ — $91m, 45n, -23j$