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Adding and Subtracting Monomials Worksheet-3

- 1) If income of a person is $\$6a^2b$ and his expenditures are $\$3ab^2$, find his savings?
- 2) Use the appropriate symbol '+' or '-' to complete the given equation.
 - a) $67mz \square 4xz \square 5mz = -4xz + 72mz$
 - b) $a^2 \square 18a \square 29a^2 = -28a^2 - 18a$
- 3) Fill in the blank:
$$\left(\frac{5}{6}x^2 - \frac{1}{3}x^2\right) - \left(\frac{3}{4}xy + \frac{1}{5}xy\right) = \underline{\hspace{2cm}}$$
- 4) Subtract $100a^2b^3$ from the difference of $(12b^3a^2 - (-7a^2b^3))$.
- 5) Add $12mn$ to $37mn$.
- 6) Simplify the given expression: $11qr - 12pq + 17qr - 65pq$
- 7) If the cost of 1 notebook is $\$139x^4y$, find the total cost of 3 notebooks?



8) State true or false.

$$938x^3 - 36x^2 = 902x$$

9) Add 3 monomials.

$-89xyz$, $37xyz$ and $30xy$

10) Find the difference between $801mn^3$ and $-73mn^3$.



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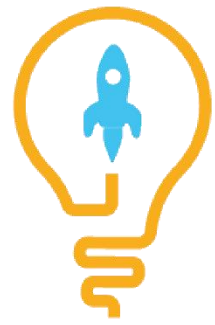
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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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ANSWERS

1)	$\$(6a^2b-3ab^2)$
2)	a) -, + b) -, -
3)	$\frac{1}{2}x^2 - \frac{19}{20}xy$
4)	$-81 a^2b^3$
5)	$49mn$
6)	$28qr-77pq$
7)	$\$417 x^4y$
8)	False
9)	$-52xyz+30xy$
10)	$874 mn^3$

FUN FACT

1. Like terms are those that have the same variables raised to the same power.
2. Monomial is a polynomial that has only one term.
3. We can only add or subtract two or more like terms while adding or subtracting monomials.

