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Adding and Subtracting Monomials Worksheet-2

- 1) Subtract the monomials.

$$13y^4 - 9y^4$$

- 2) If the perimeter of a quadrilateral is $504y^3$ and three of the sides of the quadrilateral are $21y^3$, $39xy^3$ and $31y^3$ respectively, find the fourth side of the quadrilateral.

- 3) On adding $2p$ to $10pq$, we get $12pq$ as the sum.

The given statement is,

- a) True
- b) False

- 4) Subtract $3x^2y^3$ from $-13x^2y^3$

- 5) Find the sum of $-12ab$, $35ab$ and $-108ab$.

- 6) Fill in the blank:

$$\left(\frac{2}{3}m^2 - \frac{1}{2}m^2\right) + \left(\frac{1}{3}mn - \frac{1}{6}mn\right) = \underline{\hspace{2cm}}$$

- 7) Simplify the given expression: $31pq - 2pq + 17p^2 - 15pq$

- 8) Four friends went to a restaurant for dinner. If the total bill amount is of $\$172x^2y$ and three of the friends paid $\$53x^2y$, find the amount that the fourth person has to pay?

- 9) What term we get on adding $24x$ to $-56x$?

- a) $32x$
- b) $80x$
- c) $-32x$
- d) $-32x^2$

- 10) One side of a triangle is given by $42xp^2$. If it is an equilateral triangle, find its perimeter.

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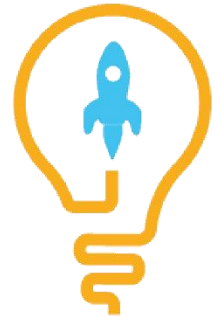
- Kirk Riley

"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)	$4y^4$
2)	$452y^3 - 39xy^3$
3)	b) False
4)	$-16x^2y^3$
5)	$-85ab$
6)	$\frac{1}{6}m^2 + \frac{1}{6}mn$
7)	$14pq + 17p^2$
8)	$119x^2y$
9)	c) $-32x$
10)	$126xp^2$

FUN FACT

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

