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Adding and Subtracting Polynomials Worksheets

- 1) Adding two polynomials $2x+1$ and $9x^2 + 8x - 2$ we get_____
- 2) Evaluate: $(58a^2 + 14a - 2a) - (7a^2 + 1)$
- 3) On adding $12w^8 + 6w^4$ with $6w^4 + 3x$ we will get $12w^8 + 12w^4 + 3x$.
a) True
b) False
- 4) $(16s^{20} + 91s^{12} - 38s) - (19s^{10} - 16s) = \text{_____}$
- 5) Add the polynomials: $(19d^4 + 14d^3 - 27d)$ and $(71d - 49d^3)$
a) $7d^2 + 12d$
b) $84d^2$
c) $7d^2 + 84d$
d) $7d^3 + 12d$
- 6) Simplify the following polynomial expression: $(16x^3 - 91x - 19) + (12x + 31)$.
- 7) Subtract the first polynomial by second: $(-100a^2 - 6a + 6)$, $(-5a^2 - 3a)$
- 8) Match the following:

a- $(26c^2 - 40c^2 - 9) - (18c^2 + 5c^2)$ $7c - 6$	p- $-9c^3 + 6c^2 -$
b- $(9c^2 + 5c + 3) - (-4c)$	q- $58c^2 + 88c$
c- $(-9c^3 + 6c^2 - 2c) - (-9c - 6)$	r- $-37c^2 - 9$
d- $(63c + 51c^2 + 9c) + (7c^2 + 16c)$	s- $9c^2 + 9c + 3$
- 9) If the area of one parallelogram is $(s^2 - 14s + 45)$ and rectangle's is $(s^2 - 14s)$. Which plane is having the greatest area?
- 10) One side of a pentagon is given by $2p+3$. If it is a regular pentagon find its perimeter.

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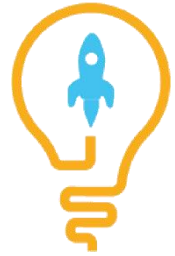
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**ANSWERS**

1)	$9x^2 + 10x - 1$
2)	$51a^2 + 14a - 2a + 1$
3)	False
4)	$16s^{20} + 91s^{12} - 19s^{10} - 22s$
5)	$19d^4 + 35d^3 + 44d$
6)	$16x^3 - 79x - 12$

7)	$-95a^2 - 3a + 6$
8)	$a-r$ $b-s$ $c-p$ $d-q$
9)	Parallelogram
10)	$10p+15$

FUN FACT

1. If a is the first term of an AP, d is the common difference, n refers to the number of terms, then a_n refers to the general term of the arithmetic sequence given as: $a_n = a + (n-1)d$
2. If we have the first term a , the last term a_n , the number of terms n , then we can find the sum to n terms by the following equation: $S_n = \frac{n}{2}\{a + a_n\}$

