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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) $(16s^{20} + 91s^{12} - 38s) - (19s^{10} - 16s)$=_____
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) Sunstract the first polynomial by second: $(-100a^2 - 6a + 6)$, $(-5a^2 - 3a)$
8) Match the following:
   a- $(26c^2 - 40c^2 - 9) - (18c^2 + 5c^2)$ p- $-9c^3 + 6c^2 - 7c - 6$
   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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- Gary Schwartz

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- Kirk Riley

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- Barbara Cabrera

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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: $S_n = \frac{n}{2}\{a + a_n\}$