Algebraic Expressions Worksheet – 3

1. What kind of algebraic expression is $p^3 + q^3 + r^3 + 3pqr$?			
2. Write all the terms of the following algebraic expression.			
$3x^2 + 2y^2 - 5xy + 6$			
3. Identify the terms of the following algebraic expression.			
2.2pq – 3.2q + 4.8p			
4. Which pair of terms are like terms?			
a) 2	25x, -25y	b)	4a²b, -6ba²
c) 4	l a²bc, -6b²ac	d)	5p², 5q²
5. 5x ² – 5	5 + 6x + 2 is a trinomial, mark true / False.		
а) Т	Frue	b)	False
6. Write the degree of below mentioned polynomial.			
$5 - 2a^2 - 4ab^3 + 7b^5$			
7. Simplify below mentioned algebraic expression.			
$5b^2 + 7b - 3 - (9b - b^2 - 7)$			
8. Find the sum of below mentioned algebraic expressions.			
5a ² + 7a - 4, 5a + 4 - a ² , 5 - 3a			
9. Simplify the following algebraic expression.			
5p²q – 3pq² + 8pq - 8p²q – 5pq + 7pq²			
10. Subtract $5xy + 6x^2 - 8y^2$ from $9x^2 - 10xy - 5y^2 + 4$.			
11. From the sum of $5a + 2$ and $5a^2 + 7a - 4$ subtract the sum of $3a^2 - 5a$ and $4a - 5a^2 + 7$.			
12. What should be deducted from $3p^2 - 5q^2 + 8pq + 25$ to get $p^2 + 4q^2 + 6pq + 20$.			
13. If a = 4, b = -3, then find the value of $a^3 + b^3 + 3qb$.			
14. If $p = 4$, then find the value of $3(2p - 1) + 2p + 15$.			
15. If $a = -3$, $b = -4$, then find the value of $3(a^2 + ab) + 3 - 2ab$.			
16. When a = 2, b = -1, c = -2, then find the values of $a^3 + b^3 + c^3 + 3abc$.			
17. Write the degree of following polynomials.			
$\frac{3}{5}ab^2 + 4ab + \frac{2}{3}a^2b^2 + 5b$			
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- 18. How much is $5a^2 7ab + 4b^2 + 6$ greater than $3a^2 + 2ab + 4$?
- 19. What must be added $5p^3 3p^2 + 4p + 3$ to get $8p^3 + 6p 7$?
- 20. Simplify: $75 [12y 5(3y 2) 2\{12y 2(2 4y)\}]$