



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Algebra and Geometry**

**Class: 7**

**Date: 23.01.21**

**Duration: 40 min**

**Worksheet 03**

**Full Marks: 15**

## Algebraic Expression

Q1. Find the sum of  $8xy$ ,  $2xy$ ,  $9xy$

- (a)  $72x^3y^3$                       (b)  $829x^2y^2$                       (c)  $19xy$                       (d)  $19x^3y^3$

Q2. Subtract  $8x^2$  from  $10x^2$

- (a)  $2x^2$                       (b)  $16x^4$                       (c)  $18x^2$                       (d)  $8x^4$

Q3. Add together  $4a + 7b$  and  $5a - 6b$

- (a)  $9a - 13b$                       (b)  $a + b$                       (c)  $a - 13b$                       (d)  $9a + b$

Q4. Sum of  $5x^2$  and  $2x$  is

- (a)  $7x^3$                       (b)  $10x^2$                       (c)  $5x^2 + 2x$                       (d)  $5x^3$

Q5. Sum of  $-40mn$ ,  $-30mn$ ,  $60mn$  is

- (a)  $10mn$                       (b)  $130mn$                       (c)  $-130mn$                       (d)  $-10mn$

Q6. Subtract  $a - b + c$  from  $2a + b - c$

- (a)  $a + 2b - 2c$                       (b)  $2c - 2b - a$                       (c)  $a - b - c$                       (d)  $3a$

Q7. Subtract  $-3b$  from  $-10b$

- (a)  $7b$                       (b)  $-7b$                       (c)  $-13b$                       (d)  $13b^2$

Q8. Subtract  $6a - b$  from  $5a + 3b$

- (a)  $11a - 2b$                       (b)  $-11a + 2b$                       (c)  $-a + 4b$                       (d)  $a - 4b$

Q9. Subtract the sum of  $3a - 5b + 5c$  and  $-6a + 7b - 9c$  from  $a - b - c$

- (a)  $4a - 3b + 3c$                       (b)  $-8a + 6b - 4c$                       (c)  $-4a + 3b - 3c$                       (d)  $a - 8b + 7c$

Q10. Simplify  $(7x - 4y) - (-2x - y)$

- (a)  $3x - y$                       (b)  $9x - 3y$                       (c)  $3x - 9y$                       (d)  $x - 3y$

Q11. Simplify  $-(-3a - 2) - (-8a - 7)$

- (a)  $11a + 11$                       (b)  $11a + 9$                       (c)  $11a - 9$                       (d)  $-11a - 9$

Q12. Add  $6a$ ,  $5a$ ,  $-3a$ ,  $-5a$

- (a)  $3a$                       (b)  $19a$                       (c)  $25a^2$                       (d)  $2a^3$

Q13. The perimeter of a triangle is  $6a + 5b - 2c$ . If two sides are  $a - b + 6c$  and  $3a + 6b - 10c$  then the third side is \_

- (a)  $2a + 2c$                       (b)  $2a - 2c$                       (c)  $2c - 2a$                       (d)  $2a + 2b + 2c$

Q14. What must be added to  $3a^2 - 4a + 6$  to get  $-4a^3 + 7a^2 + 10a - 6$ ?

- (a)  $-4a^3 + 4a^2 + 14a - 12$                       (b)  $4a^3 - 4a^2 + 14a - 12$                       (c)  $4a^3 + 4a^2 - 14a - 12$                       (d)  $4a^3 + 4a^2 + 14a + 12$

Q15. Subtract  $-8xy$  from  $11xy$

- (a)  $19xy$                       (b)  $-19xy$                       (c)  $3xy$                       (d)  $-3xy$