



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra Geometry

Class: 7

Date: 26. 06.21

Duration: 40 min

Worksheet 30

Full Marks: 15

SPECIAL PRODUCTS

Choose the Correct options:

1. Solve the expression $(x+2)(x+3)$

- A. x^2+5x+6
- B. x^2+6x+5
- C. $4x^2+3x+1$
- D. $2x^2+3x+6$

2. Solve the expression $(x+15)(x-8)$

- A. $x^2+7x-120$
- B. $x^2-7x-120$
- C. $x^2+7x+120$
- D. $x^2-7x+120$

3. Solve the expression $(x-4)(x+9)$

- A. $x^2+5x-36$
- B. $x^2-5x-36$
- C. $x^2+5x+36$
- D. $x^2-5x+36$

4. Solve the expression $(x+4)(x+4)$

- A. $x^2+8x+16$
- B. $x^2-8x+16$
- C. $x^2+8x-16$
- D. x^2+4x+8

5. Solve the expression $(x+5)(x+5)$

- A. $x^2+10x+25$
- B. $x^2+10x+15$
- C. $x^2+15x+10$
- D. $x^2+25x+10$

6. Solve the expression $(x+9)(x+9)$

- A. $x^2+18x+9$
- A. $x^2+18x+18$
- B. $x^2+18+27$
- C. $x^2+18x+81$

7. Solve the expression $(x+1)(x+1)$

- A. x^2+2x+1
- B. x^2+x+2
- C. x^2+4x+2
- D. $2x^2+x+1$

8. If $a=31$ and $b=19$ find the value of $a^2 + 2ab + b^2$
- A. 2500
 - B. 2600
 - C. 2581
 - D. 2791
9. If $a=12$ and $b=8$ find the value of $a^2 + 2ab + b^2$
- A. 244
 - B. 144
 - C. 156
 - D. 400
10. If $a=47$ and $b=53$ find the value of $a^2 + 2ab + b^2$
- A. 479
 - B. 640
 - C. 10000
 - D. 1000
11. If $a=75$ and $b=25$ find the value of $a^2 + 2ab + b^2$
- A. 475
 - B. 625
 - C. 10000
 - D. 1000
12. Find without actual multiplication the square of 104.
- A. 10016
 - B. 10816
 - C. 10116
 - D. 10110
13. Find without actual multiplication the square of 1002.
- A. 1000004
 - B. 1040404
 - C. 1004004
 - D. 1400140
14. Find without actual multiplication the square of 11.
- A. 101
 - B. 121
 - C. 221
 - D. 112
15. Find without actual multiplication the square of 41.
- A. 1601
 - B. 1681
 - C. 1661
 - D. 1116