ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Algebra Geometry **Class: 7** **Date: 30. 04.20**

Duration: 40 min **Worksheet solution -15** **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