



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra Geometry

Class: 7

Date: 26. 06.21

Duration: 40 min

Worksheet solution -30
SPECIAL PRODUCTS

Full Marks: 15

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