



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra Geometry

Class: 7

Date: 19.06.21

Duration: 40 mins

Worksheet Solution 28

Full Marks: 15

SPECIAL PRODUCTS

Choose the Correct options:

- $(x - 8)(x - 8) = \underline{\hspace{2cm}}$
 - $x^2 - 64$
 - $x^2 + 64$
 - $x^2 - 16x + 64$**
 - $x^2 + 16x + 64$
- Expand $(4x - 5)(4x + 5)$.
 - $4x^2 - 25$
 - $4x^2 + 25$
 - $16x^2 + 25$
 - $16x^2 - 25$**
- Expand $(x-4)^2$.
 - $x^2 - 8x + 16$**
 - $x^2 - 8x - 16$
 - $x^2 + 8x + 16$
 - $x^2 - 16$
- $(4a+2b)^2 =$
 - $16a^2 + 8ab - 4b^2$
 - $16a^2 - 8ab - 4b^2$
 - $16a^2 - 8ab + 4b^2$
 - $16a^2 + 8ab + 4b^2$**
- $(x^2 - y^2) \times (x^2 + y^2) = \underline{\hspace{2cm}}$
 - $2x^2 + 2y^2$
 - $x^4 - y^4$**
 - $x^4 + y^4$
 - $2x^4$
- If $a+b=7$, $ab = 10$, find $a^2 + b^2$
 - 28
 - 29**
 - 30
 - 27
- Use identity to find $(x-6)(x-19)$
 - $x^2 - 25x + 114$**
 - $x^2 - 25x - 114$
 - $x^2 + 25x + 114$
 - $x^2 + 25x - 114$
- If $x^2 + \frac{1}{x^2} = 18$, find $x - \frac{1}{x}$.
 - 4
 - 4
 - +4**
 - 16
- If area of the triangle is $24(x^2yz + xy^2z + xyz^2)$ and its length is $8xyz$, then its breadth is ?

- a. $3(x + y + z)$
 - b. $3xyz$
 - c. $3(x + y - z)$
 - d. none
10. Using identity find 201×199
- a. 3000
 - b. 3999
 - c. **39999**
 - d. 31111
11. Find $87^2 - 13^2$
- a. 7200
 - b. 7300
 - c. **7400**
 - d. 7500
12. Find $(2l - 3m + 4n)^2$
- a. $4l^2 - 9m^2 + 16n^2 - 12lm + 24mn + 16nl$
 - b. $4l^2 + 9m^2 + 16n^2 + 12lm - 24mn + 16nl$
 - c. $4l^2 + 9m^2 + 16n^2 - 12lm + 24mn + 16nl$
 - d. **$4l^2 + 9m^2 + 16n^2 - 12lm - 24mn + 16nl$**
13. Find $(2x + 3y + 5z)^2$
- a. $4x^2 + 9y^2 + 25z^2 + 18xy + 30yz + 20zx$
 - b. $4x^2 + 9y^2 + 25z^2 + 12xy + 35yz + 20zx$
 - c. **$4x^2 + 9y^2 + 25z^2 + 12xy + 30yz + 20zx$**
 - d. $4x^2 + 9y^2 + 25z^2 + 12xy + 30yz + 24zx$
14. The product of 93×99 is
- a. **9207**
 - b. 9000
 - c. 8250
 - d. 8976
15. The product of $(a+11)(a+9)$ is
- a. **$a^2 + 20a + 99$**
 - b. $a^2 - 20a + 99$
 - c. $a^2 + 20a - 99$
 - d. none of these.