



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 27.06.20

Duration: 40 min

Worksheet Solution 42

Full Marks: 15

SPECIAL PRODUCTS

Choose the Correct options:

Find the product of the following

- $(7r-6)(7r+6)$
 - $49r^2+36$
 - $49r^2-36$**
 - $49r^2+84r+36$
 - $49r^2+42r+36$
- $(7r+6)(7r+6)$
 - $49r^2+36$
 - $49r^2-36$
 - $49r^2+84r+36$**
 - $49r^2+42r+36$
- $(u-5v)(u+5v)$
 - u^2-25v^2**
 - u^2+25v^2
 - $u^2-10uv+25v^2$
 - $u^2+10uv+25v^2$
- $(u-5v)(u-5v)$
 - u^2-25v^2**
 - u^2+25v^2
 - $u^2-10uv+25v^2$
 - $u^2+10uv+25v^2$
- $(a+b)(a+b)$
 - a^2+b^2
 - $a^2+4ab+b^2$
 - $a^2+2ab+b^2$**
 - $2a^2+4ab+2b^2$
- $(2u-4v)^2$
 - $4u^2-8uv+16v^2$
 - $4u^2-16uv+16v^2$**
 - $4u^2-16v^2$
 - $4u^2+8uv+16v^2$
- $(2u+4v)^2$
 - $4u^2+4uv+16v^2$
 - $4u^2+16uv+16v^2$**
 - $4u^2+16v^2$
 - $4u^2+8uv+16v^2$
- $(n^2-5)(n^2-5)$
 - n^4-10n^2-25
 - n^4-5n^2-25
 - $2n^4-10n^2+25$
 - n^4-10n^2+25**
- $(n^2+5)(n^2+5)$
 - n^4+10n^2-25
 - n^4+10n^2+25**

- (c) $2n^4-10n^2+25$
(d) $n^2+10n+25$
10. $(10x+12y)^2$
(a) $100x^2+120xy+144y^2$
(b) $100x^2+240xy+144y^2$
(c) $20x^2+120xy+24y^2$
(d) $20x^2+120xy+144y^2$
11. $(-10y^2+4x)^2$
(a) $100y^4-16x^2$
(b) $-100y^4+16x^2$
(c) $100y^4+80y^2x-16x^2$
(d) $100y^4-80y^2x+16x^2$
12. $(x+4)^2$
(a) x^2+16
(b) x^2-16
(c) $x^2+8x+16$
(d) $x^2+8x-16$
13. $(2y-7)(2y-7)$
(a) $4y^2+14y+49$
(b) $4y^2-28y+49$
(c) $4y-14y-49$
(d) $4y^2+28y-49$
14. $(2u-4v)^2$
(a) $4u^2-8uv+16v^2$
(b) $4u^2-16uv+16v^2$
(c) $4u^2-16v^2$
(d) $4u^2+8uv+16v^2$
15. $(10x-12y)^2$
(a) $100x^2+120xy+144y^2$
(b) $100x^2-240xy+144y^2$
(c) $20x^2+120xy+24y^2$
(d) $20x^2-120xy+144y^2$