

**CREATIVE QUESTION**

- $x^4 + 8x^2 + 15$ ,  $x^2 + 5$  are two algebraic expression.
  - Subtract the second expression from the first expression.
  - Find the product of the two expression.
  - Divide first expression by the second expression.
- $(3b-5c)$ ,  $(a-2b)$  and  $(2b-c-4a)$  are three algebraic expression.
  - Multiply 3<sup>rd</sup> exp by 1<sup>st</sup> expression.
  - Simplify:  $\{2a-(3b-5c)\}-[a-\{2b-(c-4a)\}-7c]$ .
  - Show that,  $(x + y)(x - y)(x^2 + y^2) = x^4 - y^4$ .
- $(4x+5y)$ ,  $(-5y+9z)$  and  $(9z-3x+7y-5)$  are three algebraic expression.
  - Write the additive inverse expression of the 3<sup>rd</sup> expression and subtract the obtained third expression from sum of the 1<sup>st</sup> and 2<sup>nd</sup> expression.
  - Multiply 3<sup>rd</sup> expression by 2<sup>nd</sup> expression .
  - Simplify:  $4x+[-5y-\{9z+(3x-7y+x)\}]$ .
- If  $3x^2y^2$ ,  $45x^4y^{10}$  and  $10x^5y^3+6x^4y^7-12x^3y^7$  be three algebraic expression.
  - Divide  $45x^4y^{10}$  by  $3x^2y^2$
  - Divide  $10x^5y^3+6x^4y^7-12x^3y^7$  by  $3x^2y^2$ .
  - Divide  $10x^5y^3+6x^4y^7-12x^3y^7$  by  $2x^4y$ .
- $x^4-1$  and  $x^2+1$  are two algebraic expressions.
  - Subtract the second expression from the first expression.
  - Find the product of the two expressions.
  - Divide first expression by second expression.
- $x^4 + x^2 + 1$  and  $x^2 - x + 1$  are two algebraic expressions.
  - Subtract the second expression from the first expression.
  - Find the product of the two expressions.
  - Divide first expression by second expression.
- If  $A = x^2 - xy + y^2$ ,  $B = x^2 + xy + y^2$ , and  $C = x^4 + x^2y^2 + y^4$ 
  - Find the sum of A and B.
  - Find the product of A and B.
  - Show that  $\frac{C}{A} \times \frac{1}{B} = 1$

8.If  $P=64-a^3$ ,  $q = a - 4$ ,

a). What is the value of  $\frac{p}{q}$ ?

b). Show that  $(x+y)(x-y)(x^2 + y^2) = x^4 - y^4$

c). Divide  $81p^4 + q^4 - 22p^2q^2$  by  $9p^2 + 2pq - q^2$

**9.(2a-3), (2b+5) and (b-3) are three algebraic expression**

a) .Write the additive inverse expression  $(-2a+2b-a)$  and subtract the obtained third expression from sum of the 1st and 2<sup>nd</sup> expression.

b). Multiply 3<sup>rd</sup> expression by 2<sup>nd</sup> expression.

c) . Simplify: $8b-3\{2a-3(2b+5)-5(b-3)\}-3b$

Compiled by---

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