الجبري مهارت

(Algebraic Manipulation)

تجزی کے ذریعے عاداعظم معلوم کریں۔

$$abxy = a \times b \times x \times y$$

$$a^{2}bc = a \times a \times b \times c$$

$$a, b = a \times b = a \times b$$

ab ≃

6pqr, 15qrs

3qr =

 $2.2.x.y^{2}.z^{2} = 0$ $2 \times 2 \times x \times y^{2} \times z^{2} = 0$ $4xy^{2}z^{2} = 0$

14a²bc,21ab²

 $14a^{2}bc = 2 \times 7 \times a \times a \times b \times c$ $21ab^{2} = 3 \times 7 \times a \times b \times b \times c$

$$7 \cdot a \cdot b = \frac{1}{3} \cdot \frac{$$

= (x - y) (x + y) ...= $(x^2 - y^2) (x^2 + y^2)$ = $(x - y) (x + y) (x^2 + y^2)$

 $= (x^3 - y^3)(x^3 + y^3)$

 $= (x^3)^2 - (y^3)^2$... $a^2 - b^2 = (a + b) (a - b)$

 $a^3 \pm b^3 = (a \pm b) (a^2 \mp ab + b^2)$

 $x^6 - x^6$

$$(x + y)(x^{2} + xy + y^{2})(x + y)(x^{2} - xy + y^{2}) \dots (iii)$$

$$(x - y)(x + y)(x^{2} + xy + y^{2})(x^{2} - xy + y^{2}) \dots (iii)$$

$$(x - y)(x + y)(x^{2} + xy + y^{2})(x^{2} - xy + y^{2}) \dots (iii)$$

$$x^{2} - y^{2} = \int_{0}^{2\pi} |y| (1ii) \int_{0}^{2\pi} |y| (1ii)$$

$$x^{3} - 8 = x^{3} - 2^{3} \qquad \therefore a^{3} - b^{3} = (a - b) (a^{2} + ab + b^{2})$$

$$= (x - 2)(x^{2} + 2x + 4) \qquad \dots (i)$$

$$x^{2} - 7x + 10 = x^{2} - 5x - 2x + 10$$

$$= x(x - 5) - 2 (x - 5)$$

$$= (x - 5) (x - 2) \qquad \dots \dots (ii)$$

$$x - 2 = \int_{a}^{b} \int_{b} \int_{b}^{b} \int_{b}^{c} \int_{c}^{c} \int_{c}^{c}$$

(x-3)(x-2) (iii) (x (x + 3) = x (x + 3)

 $x^3 + x^2 - 6x = x(x^2 + x - 6)$

 $= x [x^2 + 3x - 2x - 6]$ = x [x (x + 3) - 2(x + 3)]

=x(x+3)(x-2)

$$35a^{2}bc^{3} = 5 \times 7 \times a \times a \times b \times c \times c^{2}$$

$$45a^{3}b^{2}c = 5 \times 9 \times a \times a^{2} \times b \times b \times c$$

$$30ab^{3}c = 5 \times 6 \times a \times b \times b^{2} \times c$$