

$$(a + b)^3 = (a + b)(a + b)^2 \quad (1)$$

$$= (a + b)(a^2 + 2ab + b^2) \quad (2)$$

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

$$x^2 + y^2 = 1 \quad (4)$$

$$x = \sqrt{1 - y^2} \quad (5)$$

This example has two column-pairs.

$$\text{Compare } x^2 + y^2 = 1 \quad x^3 + y^3 = 1 \quad (6)$$

$$x = \sqrt{1 - y^2} \quad x = \sqrt[3]{1 - y^3} \quad (7)$$

This example has three column-pairs.

$$x = y \quad X = Y \quad a = b + c \quad (8)$$

$$x' = y' \quad X' = Y' \quad a' = b \quad (9)$$

$$x + x' = y + y' \quad X + X' = Y + Y' \quad a'b = c'b \quad (10)$$

This example has two column-pairs.

$$\text{Compare } x^2 + y^2 = 1 \quad x^3 + y^3 = 1 \quad (11)$$

$$x = \sqrt{1 - y^2} \quad x = \sqrt[3]{1 - y^3} \quad (12)$$

This example has three column-pairs.

$$x = y \quad X = Y \quad a = b + c \quad (13)$$

$$x' = y' \quad X' = Y' \quad a' = b \quad (14)$$

$$x + x' = y + y' \quad X + X' = Y + Y' \quad a'b = c'b \quad (15)$$

This example has two column-pairs.

$$\text{Compare } x^2 + y^2 = 1 \quad x^3 + y^3 = 1 \quad (16)$$

$$x = \sqrt{1 - y^2} \quad x = \sqrt[3]{1 - y^3} \quad (17)$$

This example has three column-pairs.

$$x = y \quad X = Y \quad a = b + c \quad (18)$$

$$x' = y' \quad X' = Y' \quad a' = b \quad (19)$$

$$x + x' = y + y' \quad X + X' = Y + Y' \quad a'b = c'b \quad (20)$$

$$x = y \quad \text{by hypothesis} \quad (21)$$

$$x' = y' \quad \text{by definition} \quad (22)$$

$$x + x' = y + y' \quad \text{by Axiom 1} \quad (23)$$

$$\begin{aligned}
x^2 + y^2 &= 1 \\
x &= \sqrt{1 - y^2} \\
\text{and also } y &= \sqrt{1 - x^2}
\end{aligned}
\quad
\begin{aligned}
(a + b)^2 &= a^2 + 2ab + b^2 \\
(a + b) \cdot (a - b) &= a^2 - b^2
\end{aligned}
\quad (24)$$

$$\begin{aligned}
x^2 + y^2 &= 1 \\
x &= \sqrt{1 - y^2} \\
\text{and also } y &= \sqrt{1 - x^2}
\end{aligned}
\quad
\begin{aligned}
(a + b)^2 &= a^2 + 2ab + b^2 \\
(a + b) \cdot (a - b) &= a^2 - b^2
\end{aligned}
\quad (25)$$

$$\left. \begin{aligned} B' &= -\partial \times E \\ E' &= \partial \times B - 4\pi j \end{aligned} \right\} \quad \text{Maxwell's equations}$$

$$\begin{aligned}
V_j &= v_j & X_i &= x_i - q_i x_j & & = u_j + \sum_{i \neq j} q_i
\end{aligned}
\quad (26)$$

$$\begin{aligned}
V_i &= v_i - q_i v_j & X_j &= x_j & & U_i = u_i
\end{aligned}$$

$$A_1 = N_0(\lambda; \Omega') - \phi(\lambda; \Omega') \quad (27)$$

$$A_2 = \phi(\lambda; \Omega') \phi(\lambda; \Omega) \quad (28)$$

and finally

$$A_3 = \mathcal{N}(\lambda; \omega) \quad (29)$$