

Please reproduce these formulae using the equation editor in MS Word

- Equation 1 – In crystallography, the discrepancy index (R) is given as:

$$R = \frac{\sum |F_{Obs}| - |F_{Calc}|}{F_{Obs}}$$

- Equation 2 – The Lorentz factor (L) allows for the time that a plane in a rotating crystal spends in the reflecting position.

$$L = \frac{\sin \theta}{2 \sin 2\theta \sqrt{\sin^2 \theta - \sin^2 \mu}}$$

- Equation 3 – For a quadratic equation of the form:

$$ax^2 + bx + c = 0$$

the solution is

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

- Equation 4

$$I = \int_{x=-1}^{x=1} \frac{x}{x+1} dx$$

- Equation 5

$$I = \frac{1}{\int \frac{\sin \theta}{\sqrt{\sin \theta + \cos \theta}}} d\theta$$

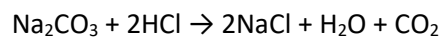
- Equation 6

$$\begin{pmatrix} 2.6 & 6.2 & -3.0 \\ 7.2 & 6.3 & 8.7 \\ -3.4 & 4.2 & 6.1 \end{pmatrix}$$

- Equation 7

$$\begin{vmatrix} 6 & -3 & 4 & 6 & -9 & 4 \\ 8 & 4 & 9 & 4 & 2 & 3 \\ 4 & -1 & 4 & 5 & -3 & 6 \end{vmatrix}$$

- Equation 8



- Equation 9

$$T^2 = \frac{4\pi^2 L}{g}$$

- Equation 10

