

$$10. \quad 5x^2 y^3 z^4 = 0$$

$$\frac{5x^2 y^3 z^4 - 0}{F} = \underline{\underline{0}}_{\text{ZERO}}$$

$$\frac{\partial z}{\partial x} = - \frac{F_x}{F_z}$$

$$= - \frac{10x y^3 z^4}{20x^2 y^3 z^3}$$

$$= \left(\frac{-z}{2x} \right)$$

$$\frac{\partial z}{\partial y} = - \frac{F_y}{F_z}$$

$$= - \frac{15x^2 y^2 z^4}{20x^2 y^3 z^3}$$

$$= \left(\frac{-3z}{4y} \right)$$

$$11. \quad \sin(x-z) - e^{yz} = 3y$$

$$\frac{\sin(x-z) - e^{yz} - 3y}{F} = \underline{\underline{0}}_{\text{ZERO}}$$

$$\frac{\partial z}{\partial x} = - \frac{F_x}{F_z}$$

$$= - \frac{\cos(x-z)(1)}{\cos(x-z)(-1) - e^{yz} \cdot y}$$

$$= \left(\frac{-\cos(x-z)}{-\cos(x-z) - ye^{yz}} \right)$$

$$\frac{\partial z}{\partial y} = - \frac{F_y}{F_z}$$

$$= - \frac{-e^{yz} \cdot z - 3}{\cos(x-z)(-1) - e^{yz} \cdot y}$$

$$= \left(\frac{ze^{yz} + 3}{-\cos(x-z) - ye^{yz}} \right)$$