$$\frac{2y}{2z} = -\frac{1}{(1+0^{2})^{-2}} \cdot e^{-z} \cdot (-1)$$

$$= \frac{e^{-z}}{(1+e^{-z})^{-2}}$$

Problem 2:

$$\frac{2M}{91} = \frac{31}{21} \cdot \frac{95}{95} \cdot \frac{9M}{95}$$

$$\frac{5M}{91} = \frac{31}{91} \cdot \frac{95}{91} \cdot \frac{9M}{95}$$

$$=\frac{35}{21}$$

$$=\frac{34}{31} \cdot \frac{35}{34} \cdot \frac{39}{35}$$