$$2r'dr' - 2t'dt' = T^{2} exp(\frac{r}{16h})\frac{r}{(6h)^{2}} dr$$

$$(2dr't' - 2dt'r') \frac{(t'^{2} - v'^{2})}{(v'^{2} + t'^{2})^{2}}$$

$$B = \frac{1}{1} \exp(-\frac{V}{26M}) \frac{(26M)^2}{V}$$

$$C = \frac{(x_1, x_1, y_2)}{(x_1, x_2, y_3)} (349) (349)$$

$$dr^{2} = A dt^{2} - \frac{1}{A} dr^{2}$$

$$= A C^{2} (dr't' - dt'r')^{2} \cdot 4$$

$$= \frac{1}{A} B^{2} (x'dr' - t'dt')^{2} \cdot 4$$

$$= \frac{1}{A} B^{2} (2v't')$$

$$+ \frac{1}{A} B^{2} (2v't')$$

$$+ \frac{1}{A} B^{2} (1)$$

$$+ \frac{1}{$$

72 (24m-1) -12 +'2

$$-43((ri'-t'')=\frac{32(m6)^3}{47^2}exp(-\frac{5}{246})$$

There is still a singularity in r->0 but no singularity for r->2MG

problem 2:

$$\frac{\partial x}{\partial x} + \frac{1}{2} \int_{-\infty}^{\infty} \frac{\partial y}{\partial x} + \frac{\partial y}{\partial x} = 0$$

geodesic equations can be found below.

problem 3:

$$\frac{3^{2}(\frac{3}{2})}{87} - \frac{2^{2}}{97} = 0$$

$$\frac{\partial}{\partial x} \left(\frac{\partial y}{\partial x} \right) - \frac{\partial}{\partial x} = 0$$