$$ds = dr + 1^{2} sen^{2}\Theta$$

$$ds = \sqrt{(dr)^{2} + 1^{2} sen^{2}\Theta}$$

$$f(r,r), \phi = \sqrt{r^{12} + r^{2} sen^{2}\Theta}$$

$$\frac{\partial f}{\partial r} = \sqrt{r^{12} + r^{2} sen^{2}\Theta}$$

$$\frac{\partial f}{\partial r} = \sqrt{r^{12} + r^{2} sen^{2}\Theta}$$

$$\frac{\partial f}{\partial r} = r^{11} \sqrt{r^{12} + r^{2} sen^{2}\Theta}$$

$$\frac{\partial f}{\partial r} = r^{11} \sqrt{(r^{12} + r^{2} sen^{2}\Theta)} - r^{12} + r^{2} sen^{2}\Theta$$

$$= r^{11} \left((r^{12} + r^{2} sen^{2}\Theta) - r^{12} \right)$$

$$= r^{11} \left((r^{12} + r^{2} sen^{2}\Theta) - r^{12} \right)$$

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