$$C_+ \ characteristic\ line \rightarrow \partial(\theta-\nu) = -\frac{1}{\sqrt{M^2-1}+1/\tan\theta}\frac{\partial r}{r}$$

$$\rightarrow \sqrt{M^2-1} = 1/\tan\mu \rightarrow \frac{\partial}{\partial K_+}(\theta-\nu) = -\frac{1}{1/\tan\mu+1/\tan\theta}\frac{dr}{r} = -\frac{\tan\mu\ \cdot\tan\theta}{\tan\theta+\tan\mu}\frac{\partial r}{r} =$$

$$-\frac{\partial r}{\cos\mu\ \cdot\cos\theta\cdot\left(\frac{\sin\theta}{\cos\theta}+\frac{\sin\mu}{\cos\mu}\right)}\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) = -\frac{dr}{(\sin\theta\cdot\cos\mu+\sin\mu\cdot\cos\theta)}\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) =$$

$$-\frac{\partial r}{[\sin(\theta+\mu)]}\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) \rightarrow \partial K_+ = \frac{\partial r}{[\sin(\theta+\mu)]} \rightarrow$$

$$\partial(\theta-\nu) = -\partial K_+\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) \rightarrow \boxed{\frac{\partial(\theta-\nu)}{\partial K_+} = -\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right)}$$

$$\partial K_+ = \frac{\partial r}{[\sin(\theta+\mu)]} \rightarrow dr = [\sin(\theta+\mu)]\cdot\partial K_+$$

$$\frac{\partial r}{\partial x} = \tan(\theta+\mu) \rightarrow [\sin(\theta+\mu)]\cdot\partial K_+ = \tan(\theta+\mu)\cdot dx \rightarrow \boxed{\partial K_+ = \frac{\partial x}{\cos(\theta+\mu)}}$$

$$C_- \ characteristic\ line \rightarrow \partial(\theta+\nu) = \frac{1}{\sqrt{M^2-1}-1/\tan\theta}\frac{\partial r}{r}$$

$$\rightarrow \sqrt{M^2-1} = 1/\tan\mu \rightarrow \frac{\partial}{\partial K_-}(\theta+\nu) = \frac{1}{1/\tan\mu-1/\tan\theta}\frac{dr}{r} = \frac{\tan\mu\ \cdot\tan\theta}{\tan\theta-\tan\mu}\frac{\partial r}{r} =$$

$$\frac{\partial r}{\cos\mu\ \cdot\cos\theta\cdot\left(\frac{\sin\theta}{\cos\theta}-\frac{\sin\mu}{\cos\mu}\right)}\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) = \frac{dr}{(\sin\theta\cdot\cos\mu-\sin\mu\cdot\cos\theta)}\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) =$$

$$\frac{\partial r}{[\sin(\theta-\mu)]}\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) \rightarrow \partial K_+ = \frac{\partial r}{[\sin(\theta-\mu)]} \rightarrow$$

$$\partial(\theta+\nu) = \partial K_+\left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right) \rightarrow \boxed{\frac{\partial(\theta+\nu)}{\partial K_+} = \left(\frac{\sin\mu\ \cdot\sin\theta}{r}\right)}$$

$$\partial K_- = \frac{\partial r}{[\sin(\theta-\mu)]} \rightarrow dr = [\sin(\theta-\mu)]\cdot\partial K_-$$

$$\frac{\partial r}{\partial x} = \tan(\theta-\mu) \rightarrow [\sin(\theta-\mu)]\cdot\partial K_- = \tan(\theta-\mu)\cdot dx \rightarrow \boxed{\partial K_- = \frac{\partial x}{\cos(\theta-\mu)}}$$