



Title	卵形線ニツイテ
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Citation	全国紙上数学談話会. 1937, 118, p. 11-12
Version Type	VoR
URL	https://doi.org/10.18910/74459
rights	
Note	

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534. 卵形線 = ツイテ

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(I) *Math. Z.* 41, p. 718 = 於ケル *Goetsch* の定理
 1 ハ 相對微分幾何デハ $\frac{r'(\alpha)}{r(\alpha)} = \frac{h'(\varphi)}{h(\varphi)}$ ノ代リニ

$$(1) \quad \frac{\frac{h'(\varphi)}{h(\varphi)}}{\frac{H'(\varphi)}{H(\varphi)}} = \frac{\frac{r'(\alpha)}{r(\alpha)}}{\frac{R'(\alpha')}{R(\alpha')}} \left[= \frac{\tan(\alpha - \varphi)}{\tan(\alpha' - \varphi)} \right]$$

トナリテ矢張り成立スル H, R ハ *Eichelinie* = ゴクシ
 h, r ハ考フル卵形線 = ゴクスル量デアル。

(II) 次ニ同論文定理 2 = 相當スルコトヲ 相對微分幾何デ
 考ヘ

$$\frac{h'(\varphi)}{h(\varphi)} = \frac{r'(\alpha)}{r(\alpha)} \frac{d\alpha}{d\varphi} - \frac{\sin(\alpha - \varphi)}{\cos(\alpha - \varphi)} \left(\frac{d\alpha}{d\varphi} - 1 \right),$$

$$\frac{H'(\vartheta)}{H(\vartheta)} = \frac{R'(\alpha')}{R(\alpha')} \frac{d\alpha'}{d\vartheta} - \frac{\sin(\alpha' - \vartheta)}{\cos(\alpha' - \vartheta)} \left(\frac{d\alpha'}{d\vartheta} - 1 \right)$$

ヲ逐々計算シ、次ニソノ右辺ノ各因子ヲ $\frac{R'(\alpha')}{R(\alpha')}$ デ割リ(1)ヲ
代ハ入セバ

$$\begin{aligned} (2) \quad & \frac{\frac{h'(\vartheta)}{h(\vartheta)}}{\frac{H'(\vartheta)}{H(\vartheta)}} \left[-\frac{d\alpha'}{d\vartheta} + \frac{d\alpha}{d\vartheta} + \frac{R(\alpha)}{R'(\alpha')} \frac{\sin(\alpha' - \vartheta)}{\cos(\alpha' - \vartheta)} \right] \\ & = \frac{R(\alpha')}{R'(\alpha')} \frac{\sin(\alpha - \vartheta)}{\cos(\alpha - \vartheta)} \left(\frac{d\alpha}{d\vartheta} - 1 \right) \end{aligned}$$

ヲ得、(2)ハ吾人ノ結果デアリ。