$$\lambda = 1 + y$$

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$$J(t) = (cost, sent, 1 + sent)$$

$$X(t) = r(t) \cos\theta(t), y(t) = r(t) \sin\theta(t), x \le t \le \beta$$

$$\frac{dx}{dt} = \cos(\theta) \frac{dr}{dt} - (r \sin \theta) \frac{d\theta}{dt}$$

$$ds = \sqrt{\left(\frac{dr}{d\Theta}\right)^2 + r^2} d\Theta$$