

# hw03

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## 1 TRAVEL TIME TABLE

Flattening model

### 1.1 FORMULA

[X, T]=Ray1D(p, $\alpha$ )  
give p

$$X = 2 \sum_{j=1}^N Th_j \frac{p}{\eta_j}$$

$$T = 2 \sum_{j=1}^N \frac{Th_j}{\eta_j} \frac{1}{\alpha_j^2}$$

end

## 1.2 SUBROUTINE

## 1.3 FIGURES

# 2 RAY TRACING

## 2.1 BENDING

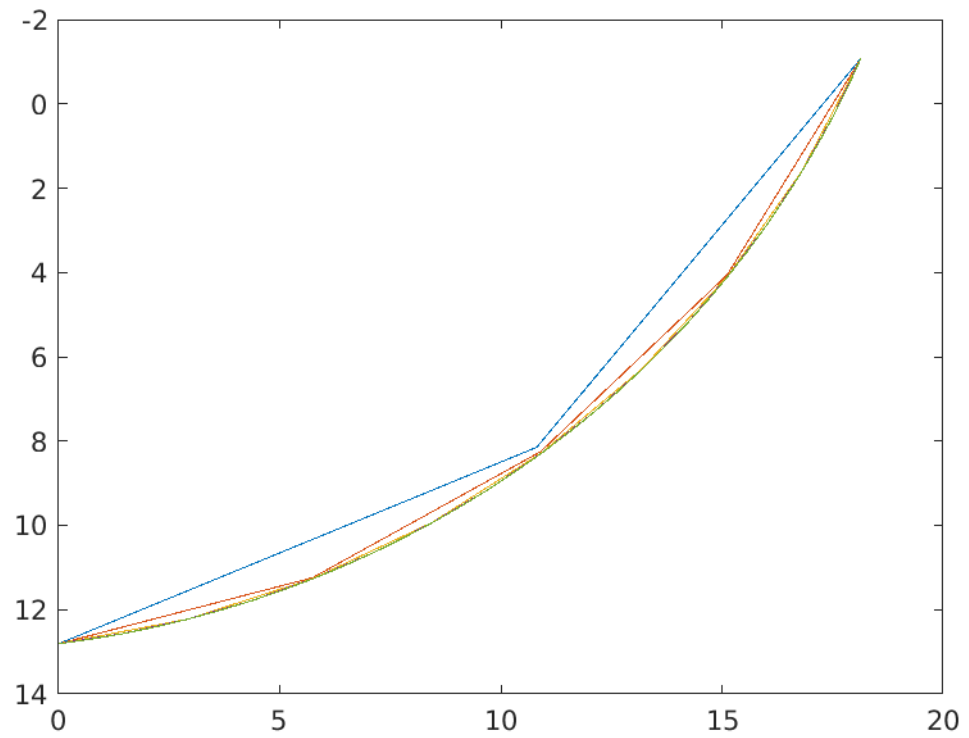


Figure 1: Ray tracing by bending method

## 2.2 FINITE DIFFERENCE