

$$\bar{x} = \frac{2r \sin \theta}{3\theta}$$

Seja  $\bar{x} := \frac{r}{2}$

$$\bar{x} = \frac{r}{2} = \frac{2r \sin \theta}{3\theta}$$

$$\Rightarrow$$

$$\frac{r}{2} \times \frac{1}{r} = \frac{2r \sin \theta}{3\theta} \times \frac{1}{r}$$

$$\Rightarrow$$

$$\frac{1}{2} = \frac{2 \sin \theta}{3\theta}$$

$$\Rightarrow$$

$$\dots$$

$$\Rightarrow$$

$$f(\theta) := \cos \theta - \frac{3}{4}\theta = 0$$

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