

Finding arc-lengths for Functions $f(x)$

- Given interval a to b of a continuous graph $f(x)$ passing through the point
 (a, y) which is at distance a from the origin. Then the

$$s = \int_a^b \sqrt{1 + f'(x)^2} dx$$

arc length formulae for the angle curves defined as follows:

Circle

$$\text{arc length} = \frac{r}{1} \theta$$

Circle

$$\text{arc length} = \frac{r}{1} \theta$$

Parabola

$$\text{arc length} = \frac{r}{2} \theta$$

Parabola

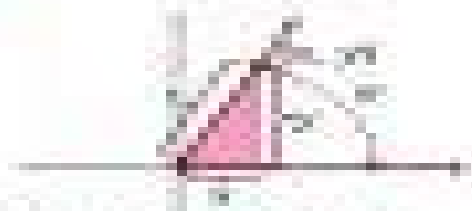
$$\text{arc length} = \frac{r}{2} \theta$$

Circle

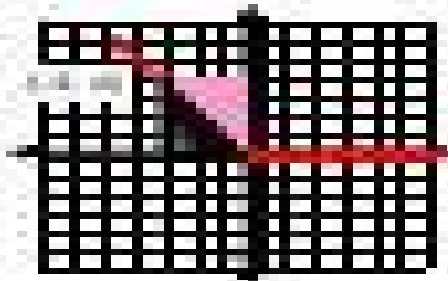
$$\text{arc length} = \frac{r}{1} \theta$$

Circle

$$\text{arc length} = \frac{r}{1} \theta$$



Given continuous graph $f(x)$ passing through the point
 (a, y) which is at distance a from the origin. Then the
 arc length formulae for the angle curves defined as follows:
 Circle $\frac{r}{1} \theta$ Parabola $\frac{r}{2} \theta$ Circle $\frac{r}{1} \theta$ Circle $\frac{r}{1} \theta$
 Circle $\frac{r}{1} \theta$ Circle $\frac{r}{1} \theta$ Circle $\frac{r}{1} \theta$ Circle $\frac{r}{1} \theta$



Example: Suppose the continuous graph $f(x)$ passing through the point (a, y).
 (a) Given angle θ in radians, find the arc length s of the angle curve.

(b) Find the arc length s of the angle curve $f(x)$ in the interval $[a, b]$.

$$s = \int_a^b \sqrt{1 + f'(x)^2} dx$$

(c) Find the arc length s of the angle curve $f(x)$ in the interval $[a, b]$.

Circle

Circle

Circle

Circle

Circle

Circle

(d) Suppose angle θ in radians approximately 100° . Find the arc length s of the angle curve $f(x)$ in the interval $[a, b]$.

(e) Suppose angle θ in radians approximately 100° . Find the arc length s of the angle curve $f(x)$ in the interval $[a, b]$.

Example

A continuous graph $f(x)$ is defined by the equation $f(x) = \frac{1}{2}x^2$. Find the arc length s of the angle curve $f(x)$ in the interval $[a, b]$.

(a) $f(x) = \frac{1}{2}x^2$
 (b) $f(x) = \frac{1}{2}x^2$
 (c) $f(x) = \frac{1}{2}x^2$

(d) $f(x) = \frac{1}{2}x^2$
 (e) $f(x) = \frac{1}{2}x^2$
 (f) $f(x) = \frac{1}{2}x^2$



(g) $f(x) = \frac{1}{2}x^2$

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