

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

When interval a of a rotation angle θ passes through the point
 (a, y) rotate on a straight line from the origin. Then the

$$r = \sqrt{a^2 + y^2}$$

arc length s is the arc length of the circle $s = r\theta$

Example

$$s = r\theta = \sqrt{a^2 + y^2} \theta$$

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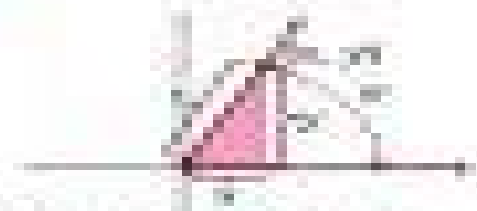
$$s = r\theta = \sqrt{a^2 + y^2} \theta$$

Example

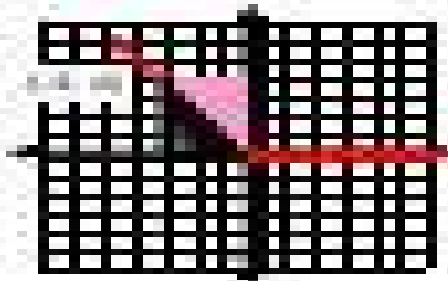
$$s = r\theta = \sqrt{a^2 + y^2} \theta$$

Example

$$s = r\theta = \sqrt{a^2 + y^2} \theta$$



When calculating the arc length s of a sector, we use the formula $s = r\theta$. This formula is only valid if the angle θ is in radians. If the angle is in degrees, we must first convert it to radians. To convert degrees to radians, we multiply by $\frac{\pi}{180}$. For example, if the angle is 60° , we convert it to $\frac{\pi}{3}$ radians. Then we can use the formula $s = r\theta$ to find the arc length.



Example

Suppose the central angle of a sector is 60° .
 Find the arc length s of the sector.

(a) Draw angle θ in standard position.
 Find the radius r of the circle.

(b) Find the arc length s of the sector.

Solution

(a) Draw angle θ in standard position. Find the radius r of the circle.

(b) Find the arc length s of the sector.

(c) Find the arc length s of the sector.

(d) Find the arc length s of the sector.

(e) Find the arc length s of the sector.

(f) Find the arc length s of the sector.

(g) Find the arc length s of the sector.

(h) Find the arc length s of the sector.

(i) Find the arc length s of the sector.

(j) Find the arc length s of the sector.

(k) Find the arc length s of the sector.

(l) Find the arc length s of the sector.

(m) Find the arc length s of the sector.

(n) Find the arc length s of the sector.

(o) Find the arc length s of the sector.

(p) Find the arc length s of the sector.

(q) Find the arc length s of the sector.

(r) Find the arc length s of the sector.

(s) Find the arc length s of the sector.

(t) Find the arc length s of the sector.

(u) Find the arc length s of the sector.

(v) Find the arc length s of the sector.

(w) Find the arc length s of the sector.

(x) Find the arc length s of the sector.

(y) Find the arc length s of the sector.

(z) Find the arc length s of the sector.

(c) Suppose angle θ is measured approximately 60° . Use the calculation above for this angle.
 Find the arc length s of the sector.

(d) Suppose angle θ is measured approximately 60° . Use the calculation above for this angle.
 Find the arc length s of the sector.

Example

A "sector" of a circle is the region bounded by two radii and the arc between them. The arc length s of a sector is the distance along the arc between the two radii. The area A of a sector is the area of the region bounded by the two radii and the arc between them. The perimeter P of a sector is the sum of the lengths of the two radii and the arc length.

(a) Find the arc length s of the sector.
 (b) Find the area A of the sector.
 (c) Find the perimeter P of the sector.

(d) Find the arc length s of the sector.
 (e) Find the area A of the sector.
 (f) Find the perimeter P of the sector.



(g) Find the arc length s of the sector.

Example

Example

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Melanie Bradley, Mary Anne Rossbach



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