

## Finding arc-lengths for Functions $y = \sin(x)$

When terminal side of a rotation angle  $\theta$  passes through the point  
 (a, y), rotate in a direction of \_\_\_\_\_ from the origin. Then the

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

arc length(s) function(s) for this angle will be defined as follows:

(cosine)

$$\cos(\theta) = \frac{a}{r}$$

(sine)

$$\sin(\theta) = \frac{y}{r}$$

(tangent)

$$\tan(\theta) = \frac{y}{a}$$

(secant)

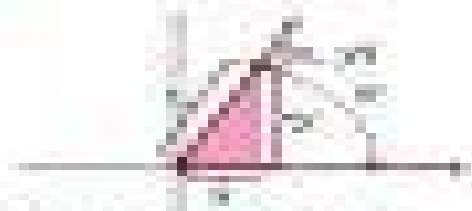
$$\sec(\theta) = \frac{r}{a}$$

(cosecant)

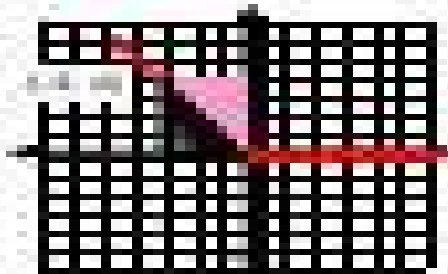
$$\csc(\theta) = \frac{r}{y}$$

(cotangent)

$$\cot(\theta) = \frac{a}{y}$$



When calculating the arc length, determine whether the first angle value, whether that angle is  $\theta$  or  $2\pi - \theta$ , is the angle that you want. If not, then the second angle will be the angle that you want. If the angle is the angle that you want, then the arc length is the arc length of that angle.



Example: Suppose the terminal side of a rotation angle  $\theta$  passes through the point (2, -3).

(a) Draw angle  $\theta$  in standard position. Find the distance from (0, 0) to the point (2, -3).

(b) \_\_\_\_\_

(c) \_\_\_\_\_

(d) \_\_\_\_\_

(e) Suppose angle  $\theta$  measures approximately  $100^\circ$ . Use the calculation values for this angle, and use the angle values to determine the arc length of the angle.

### Notes

A "reference angle" is the smallest distance to the horizontal axis. It is measured in the direction of the angle. The reference angle is the angle that is measured from the horizontal axis to the terminal side of the angle. The reference angle is the angle that is measured from the horizontal axis to the terminal side of the angle. The reference angle is the angle that is measured from the horizontal axis to the terminal side of the angle.

a = "reference" angle  
 y = "reference" angle  
 r = "reference" angle

When calculating the arc length, determine whether the first angle value, whether that angle is  $\theta$  or  $2\pi - \theta$ , is the angle that you want. If not, then the second angle will be the angle that you want. If the angle is the angle that you want, then the arc length is the arc length of that angle.



(Reference angle)

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**Lingsheng Yao**



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