

Applications of Area, Length and Distance

1. A sector of a circle is a region of the circle bounded by a central angle and the corresponding arc.



As proportional relationships exist between the central angle bounding the sector and the complete circle, these have previously determined relationships that could be used to predict that arc length of a circle is directly proportional to the central angle and the radius of the circle. This function was determined for arc length of a circle of radius r in general form:

$$\text{Arc Length} = \frac{\theta}{360} (\text{circumference of circle})$$

Another way to determine length is to think about, just as, where relationships. As you collected that the area under the probability density function is simply a function of the circle's circumference, the arc length is proportional to the radius of the circle. This relationship can be summarized proportionally as circle of any given radius, r , is written:

$$\frac{\text{Arc Length}}{r} = \frac{\text{Circumference of Circle}}{r}$$

Similarly, you determined a function that could be used to predict the area under a central angle in a circle of radius r is written as follows:

$$\text{Area Under Arc Length of Circle} = \frac{\theta}{360} (\text{area of circle})$$

As you collected that the area under the probability density function is simply a function of the circle's circumference, the arc length is proportional to the radius of the circle. This relationship can be summarized proportionally as circle of any given radius, r , is written:

$$\frac{\text{Arc Length}}{r} = \frac{\text{Circumference of Circle}}{r}$$

Example: (Based on probability density function.)

1. If the radius of the circle is 10 units and the angle is 60 degrees, find the arc length and area of the sector.

Geometry Hs Mathematics Unit 04 Lesson 01

Léo Pomar



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