

MATH2513 - Structures and Mathematical Modelling I
(Differential Equations, Probability, and Applications)
(Course Key)

Notes:

Section 1.1: Coordinate System

Consider the curve $y = \sin^2 x$ for $0 \leq x \leq \pi$.

Consider the region R **left of the curve** $y = \sin^2 x$ for $0 \leq x \leq \pi$ and y non-negative.

Find the **area** of the region R by using the definite integral. Also, find the **centroid** of the region R .
Recall: if $A = \int_a^b f(x) dx$ then

(i) \bar{x} is $\frac{1}{A} \int_a^b x f(x) dx$ and \bar{y} is $\frac{1}{A} \int_a^b \frac{1}{2} f(x)^2 dx$.

(ii) If $A = \int_a^b f(x) dx$ is the area of the region R bounded by $y = f(x)$, $y = 0$, $x = a$, $x = b$, then

(iii) \bar{x} is $\frac{1}{A} \int_a^b x f(x) dx$ and \bar{y} is $\frac{1}{A} \int_a^b \frac{1}{2} f(x)^2 dx$.

(iv) \bar{x} is $\frac{1}{A} \int_a^b x f(x) dx$ and \bar{y} is $\frac{1}{A} \int_a^b \frac{1}{2} f(x)^2 dx$.

The **area** of the region R is $\frac{1}{2} \int_0^\pi \sin^2 x dx$. Find the **centroid** of the region R .
Recall: if $A = \int_a^b f(x) dx$ then

The **centroid** of the region R is (\bar{x}, \bar{y}) where $\bar{x} = \frac{1}{A} \int_a^b x f(x) dx$ and $\bar{y} = \frac{1}{A} \int_a^b \frac{1}{2} f(x)^2 dx$.
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Section 1.2: Area and Volume

The **area** of the region R is $\frac{1}{2} \int_0^\pi \sin^2 x dx$.

The **centroid** of the region R is (\bar{x}, \bar{y}) where $\bar{x} = \frac{1}{A} \int_a^b x f(x) dx$ and $\bar{y} = \frac{1}{A} \int_a^b \frac{1}{2} f(x)^2 dx$.

Section 1.3:

The **area** of the region R is $\frac{1}{2} \int_0^\pi \sin^2 x dx$.

The **centroid** of the region R is (\bar{x}, \bar{y}) where $\bar{x} = \frac{1}{A} \int_a^b x f(x) dx$ and $\bar{y} = \frac{1}{A} \int_a^b \frac{1}{2} f(x)^2 dx$.

The **area** of the region R is $\frac{1}{2} \int_0^\pi \sin^2 x dx$.

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