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Sec

A.

Assignment

01.

Dep

Civil engineering.

Application of derivatives:

We use the derivatives to determine the maximum & minimum values of particular functions. e.g. (cost, strength amount of material used in building, profit, loss etc). Derivatives are used in many engineering & science problems. also when modeling the behaviour of moving objects. It is also used in design & maintenance of public works such as roads, bridges, water, energy system, railways & airports.

Application of Integrations:

- 1) It is used to determine shear force & bending moment
- 2) It is used to determine length of curve.

3) It is used to determine area under a curve.

4) It is used to determine volume of solid of Revolution

5) It is used to determine moment of inertia

6) It is used to determine Centroid of an area.