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Assignment No: Calculus.

Engineering civil.

Applications of Derivatives in Engineering.

1) The design and maintenance of public works such as roads, bridges, water, energy, systems, ports, railways and air ports.

2) We use derivatives to determine the maximum and minimum values of a particular functions. eg strength, amount of material used in building, profit loss etc

3) When modelling the behaviour of moving object.

Applications of Integration.

1) It is used to determine the shear force and bending moment.

2) Is used to determine area under of curve.

3) It is used to determine volume of solid revolution.

4) It is used to determine length of curve.

5) Is used for finding moments of inertia.