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Section A
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Applications of Derivatives in Engineering.

- 1) We use derivative to determine the maximum and minimum values of particular functions.
Eg: Cost, Strength, amount of material used in building, profit, loss etc.
- 2) When modelling the behaviour of moving objects.
- 3) The design and maintenance of public works such as roads, bridges, water, energy systems, ports, railways and airports.

Applications of Integration in Engineering.

- 1) Surface Area, Volume, Work, Center of mass, Area between curves, Distance, Acceleration, Probability.