- 1.1 State the law of conservation of energy in words.
- 1.2 A motorcar with a mass of 0,9 ton is parked on an incline AB of 1 : 20. The motorcar departs from rest at A and within 12 seconds reaches a speed of 144 km/h.

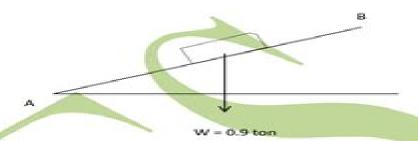
(2)

(10)

(4) [16]

 (5×2)

If all frictional losses are neglected, calculate:



- 1.2.1 The acceleration of the car from A to B
- 1.2.2 The pulling force of the car's engine
- 1.2.3 The length of the gradient
- 1.2.4 The power of the car's engine
- 1.2.5 The potential energy at B

1.3

A Gautrain experiences a tractive resistance of 280 N per 1 000 kg when it

If the Gautrain exerts a force of 80 kN when it has a mass of 40 000 kg, calculate the acceleration of the Gautrain.

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 L. Thobejane
 Moderated By : B. Fuzile
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understood systems science SS to support the transition identifying and using commonalities between complex systems and other sciences such as biology sociology cognitive science organizational theory and computational science The author defines Model oriented Systems Engineering Science MOSES an organized system that selects appropriate information from these disciplines and unifies it into a coherent framework. The result is a seamless approach to the class of systems across the extended scope of the new SE a foundation upon which to develop an enhanced and unified SE Modeling orientation MO provides a common perspective on the entire SES SE enterprise including all supporting sciences engineering for the full range of traditional complex and hybrid systems and their management This book extends existing modeling approaches into an MO that views all science artifacts and engineering artifacts as models of systems It organizes them into a virtual structured repository called the SE model space effectively a container for the accumulating body of SE and SES knowledge in the form of models and patterns By organizing and integrating all these elements into a common framework the author makes the material not only easily accessible but also immediately applicable and provides a well grounded basis for future growth and evolution of the SE discipline Journal of Mechanical Engineering Science ,1965 U.S. Government Research & Development Reports ,1965 U.S. Government Research and Development Reports, 1965 **Engineering Electrical Engineering** ,1918 English Mechanics and the World of Science, 1885 **Parliamentary Papers** .1928 Great Britain. Parliament. House of Commons, 1904 Sessional Papers Great Britain. Parliament. House of Commons, 1903 **Government Reports Announcements & Index**, 1988 Indian Engineering Patrick Doyle, 1905 **Engineering** Abstracts Prepared from the Current Periodical Literature of Engineering and Applied Science, Published Outside the United Kingdom ,1920 The Popular Science Monthly ,1919 Science Abstracts .1921 Bibliography of Scientific and Industrial Reports ,1965-07 Science and Art of Mining .1927 Toxic Substances Sourcebook, 1980 The professional s guide to information sources key literature and laws Also includes conferences books films directory of periodicals and data bases list of periodicals and statistics abstracts of papers presented technical reports and journal articles Miscellaneous indexes

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