# NEB-GRADE XI 2076 (2019)

# Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

$$5 \times 3 \times 2 = 30$$

- a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
  - b. If  $f: \Re \rightarrow \Re$  be defined by f(x) = 2x 3, find  $f^{-1}$
  - c. Test the even or odd nature and symmetricity of the function  $y = 8x^2$
- a. Express tan-1x in terms of inverse of sin function.
  - b. Prove by mathematical induction:  $l+3+5+...+(2n-1)=n^2$
  - c. Find the adjoint of the matrix  $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
- 3. a. Using Cramer's rule, solve: 3x + 2y + 9 = 0, 2x 3y + 6 = 0
  - b. Express  $\sqrt{3} + i$  in polar form.
  - c. If one root of the equation  $ax^2 + bx + c = 0$  be twice the other, show that  $2b^2 = 9ac$
- 4. a. Find the equation of the straight line that has y- intercept '2' and is parallel to 4x-8y+3=0
  - Find the equation of the circle which passes through origin and makes equal intercepts on both axes.

c. Evaluate:  $x \to 0$  1-cos nx

# **Grade 11 Exam Papers Maths**

SJ Ball

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web the diagram below is a schematic of the prius powertrain with detail in particular i have grossly simplified the way in

which the internal combustion engine ice drives the planet gears in the power split device psd and the way that the ring gear is connected to the silent chain sprocket and motor generator 2 mg2 it is

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web jul 18 2016 model four touring perhaps this belongs in the newbie forum but i m trying to understand the functioning of the psd i understand that initially mg2 may power the car with the ice stopped this means that mg1 is turning and because it is a permanent magnent device it should be generating power

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web feb 10 2015 i ran across this page yesterday and was fascinated by the inner workings of the power split device psd i also noticed that there was enough information there for me to put together an animation and working interactive demo of the psd with controls for input from ice and mg2 so i spent a couple hours putting it together in maya

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web nov 6 2016 introduction many resources and threads exist that describe the prius power split device they correctly describe how rpms can be calculated and how torque is split but i did not find any that would correctly describe how the power is split the solution seems easy at first power is rpm multiplied by torque the power split device ecros tech - Sep 14 2023

web the power split device the prius transmission includes a special gear set that toyota call the power split device psd this is an epicyclic or planetary gear similar to those used in automatic transmissions however its use in the prius is very different as i hope to explain

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