

- 2 (b) Given that $T = 2\pi\sqrt{g}^{-1}$, express g in terms of T , π and e .

[3]

$$\begin{aligned} \frac{T}{2\pi\sqrt{g}^{-1}} &= \frac{2\pi e^{1/2} \sqrt{g}^{-1/2}}{2\pi\sqrt{g}^{-1/2}} \\ \frac{T}{2\pi\sqrt{g}^{-1/2}} &= e^{1/2} \quad \text{Note: } \sqrt{x} = x^{1/2} \\ \left(\frac{T}{2\pi\sqrt{g}^{-1/2}}\right)^2 &= (e^{1/2})^2 \quad \sqrt{x^2} = x^{2/2} \\ \frac{T^2}{4\pi^2\sqrt{g}^{-1}} &= e \quad \text{or} \quad g = \frac{T^2\pi}{4\pi^2} \end{aligned}$$

- (b) By using the substitution $y = x^2$, or otherwise, solve $x^4 - 4x^2 + 3 = 0$.

[4]

$$\begin{aligned} y &= x^2 \\ x^4 - 4x^2 + 3 &= 0 \\ (x^2)^2 - 4x^2 + 3 &= 0 \\ y^2 - 4y + 3 &= 0 \\ (y-3)(y-1) &= 0 \\ y &= 3 \quad y = 1 \\ x^2 &= 3 \quad x^2 = 1 \\ (x^2)^2 &= 3^2 \quad (x^2)^2 = 1^2 \\ x &= \pm\sqrt{3} \quad x = \pm 1 \end{aligned}$$

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- 2 Find the set of values of k for which the equation $2x^2 + 3x - 4 + k = 0$ has no real roots.

[4]

To have no real roots, Discriminant

$$b^2 - 4ac < 0$$

$$\text{In } kx^2 + 3x - 4 + k = 0$$

$$a = k \quad b = 3 \quad c = -4 + k$$

$$3^2 - 4(k)(-4 + k) < 0$$

$$9 + 16k - 4k^2 < 0$$

$$-(4k^2 - 16k - 9) < 0$$

$$4k^2 - 16k - 9 > 0$$

$$(2k-9)(2k+1) > 0$$

$$2k-9 > 0 \quad 2k+1 > 0$$

$$k > 9/2 \quad k > -1/2$$

critical values

$$k < -9/2, \quad k > 9/2$$



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David Rayner



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web abstract an automatic voltage regulator for an alternator consists essentially of a voltage sensitive element which controls through suitable apparatus the excitation of an alternator in the voltage regulator described herein the voltage sensitive element is

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web aug 27 2021 in automotive claw pole alternators voltage regulation is achieved through on off switching of field current between 2 set points e g 13 8 14 2 v for a 12v system the voltage regulator assembly supplies field current switched by a transistor via integral carbon brushes to the rotor slip rings

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web the 19911 is a monolithic multifunction alternator voltage regulator intended for use in automotive application it includes the control section the field power stage fault diagnostic circuit which drives a warning lamp and the protection against short circuits order code temp range c package

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web the cs3361 integral alternator regulator integrated circuit provides the voltage regulation for automotive 3 phase alternators it drives an external logic level n channel enhancement power fet for control of the alternator field current

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web aug 3 2023 there are three types of regulators electromechanical voltage regulators electronic voltage regulators and computer controlled voltage regulators the electromechanical voltage regulators have three electromagnetic switches with their own functions they are the cutout relay the regulator and the current regulator

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web the alternator comprises a cooling fan voltage regulator rotor stator diode bridge rectifier slip rings slip ring end bearings carbon brushes pulley the rotor and stator are the central units for electricity generation while the rectifier helps in converting ac to dc

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web jun 27 2021 fig 1 equivalent circuit of an alternator formula for voltage regulation of alternator voltage regulation is usually expressed as a fraction or percentage of the terminal voltage on load hence in general if V is the terminal voltage per phase for a given load and E_o is the open circuit voltage i e no load terminal voltage per phase then

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web an alternator with a faulty voltage regulator will make a whining or humming noise as it receives inaccurate voltage signals from the regulator full fielding an alternator bypasses the voltage regulator and produces maximum voltage output charging voltage can be regulated using an electro mechanical electronic or computer controlled regulator

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web aug 28 2023 if the output voltage reading is 16 volts or higher there s an overcharging problem this usually indicates a bad voltage regulator if voltage seems to fluctuate during your test switch your voltmeter to the ac voltage scale and take another output voltage reading with the engine still running

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web feb 12 2023 the alternator voltage regulator circuit is a device that regulates the output of the alternator in a vehicle it ensures that the correct amount of power is being generated by the alternator and that the battery is receiving the correct

amount of charge

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web jul 2 2020 the 4 simple car voltage current regulator circuits explained below is created as a immediate alternative to any standard regulator and although developed principally for a dynamo it will function equally effectively with an alternator

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web may 3 2020 a voltage regulator is a device used to change fluctuating voltages on its input to a defined and stable one on its output voltage regulators may be mechanical electric ac or dc in this article we are going to look at dc electronic linear regulators application of regulators

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web alternator voltage regulator the mc33092a is specifically designed for voltage regulation and load response control lrc of diode rectified alternator charging systems as commonly found in automotive applications the mc33092a provides load response control of the alternator output current to eliminate engine speed