

5.

Applying KCL at node X

$$\frac{V_x}{2R} + \frac{V_x - V_A}{2R} + \frac{V_x - V_y}{2R} = 0$$

$$\frac{V_x + V_x - V_A + 2V_x - 2V_y}{2R} = 0$$

$$4V_x - 2V_y - V_A = 0 \Rightarrow \textcircled{1}$$

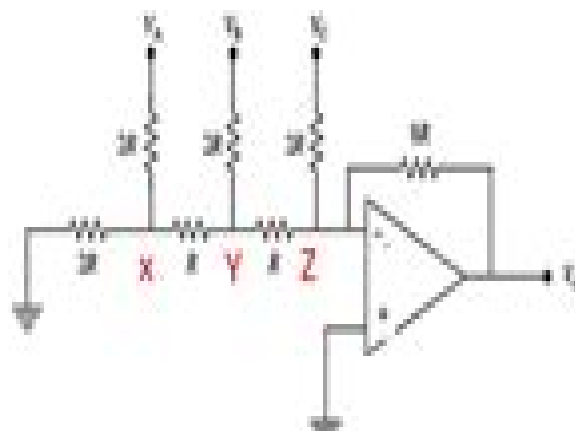
Applying KCL at node Y

$$\frac{V_y - V_x}{R} + \frac{V_y - V_B}{2R} + \frac{V_y - 0}{R} = 0$$

$$\therefore V_Z = 0$$

$$\frac{2V_y - 2V_x + V_y - V_B + 2V_y}{2R} = 0$$

$$-2V_x + 5V_y - V_B = 0 \Rightarrow \textcircled{2}$$



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Analog Electronics Balwinder Singh, Ashish Dixit, 2007

Basic Electronics (Includes Solved Problems and MCQs) B. Somanathan Nair, 2013-12-30 The present book is meant for the first year engineering curricula of various universities in India It describes the basic theories of electron dynamics semiconductor physics semiconductor diodes bipolar junction transistors field effect junction MOS and CMOS transistors voltage and power amplifiers oscillators power electronic devices SCR and UJT and operational amplifiers It further describes radio mobile fiber optic satellite and microwave communication systems It also deals with the basic theories of radar electronic instrumentation Boolean algebra and logic functions The book has more than 250 diagrams to illustrate the theories described and numerous worked examples

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Scientific and Technical Aerospace Reports, 1983

Basic Electronics Chinmoy Saha, Arindam Halder, Debarati Ganguly, 2018-05-03 With the presence of enhanced pedagogical features the text will help readers in understanding fundamental concepts of electronics engineering

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BASIC ELECTRONICS KAL, SANTIRAM,2009-01-14 This comprehensive and well organized text discusses the fundamentals of electronic communication such as devices and analog and digital circuits which are so essential for an understanding of digital electronics Professor Santiram Kal with his wealth of knowledge and his years of teaching experience compresses within the covers of a single volume all the aspects of electronics both analog and digital encompassing devices such as microprocessors microcontrollers fibre optics and photonics In so doing he has struck a fine balance between analog and digital electronics A distinguishing feature of the book is that it gives case studies in modern applications of electronics including information technology that is DBMS multimedia computer networks Internet and optical communication Worked out examples interspersed throughout the text and the large number of diagrams should enable the student to have a better grasp of the subject Besides exercises given at the end of each chapter will sharpen the student s mind in self study These student friendly features are intended to enhance the value of the text and make it both useful and interesting Schaum's Outline of Electronic Devices and Circuits, Second Edition Jimmie Cathey,2002-06-05 This updated version of its internationally popular predecessor provides and introductory problem solved text for understanding fundamental concepts of electronic devices their design and their circuitry Providing an interface with Pspice the most widely used program in electronics new key features include a new chapter presenting the basics of switched mode power supplies thirty one new examples and twenty three PS solved problems **Digital Signal Processing** Abdaheer,2007-01-01

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