

5.

Applying KCL at node X

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

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

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

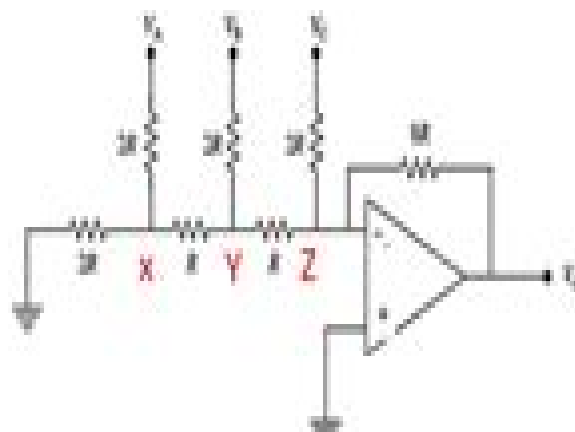
Applying KCL at node Y

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

$$\therefore V_Z = 0$$

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

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



Analog Electronics Solved Problems

B. Somanathan Nair



Analog Electronics Solved Problems:

Lecture Notes in Analog Electronics Vančo B. Litovski, 2025-01-17 Prof Van o Litovski was born in 1947 in Rakita South Macedonia Greece He graduated from the Faculty of Electronic Engineering in Ni in 1970 and obtained his M Sc in 1974 and his Ph D in 1977 He was appointed as a teaching assistant at the Faculty of Electronic Engineering in 1970 and became a full professor at the same faculty in 1987 He was elected as a visiting professor honoris causa at the University of Southampton in 1999 From 1987 until 1990 he was a consultant to the CEO of Ei and was the head of the Chair of Electronics at the Faculty of Electronic Engineering in Ni for 12 years From 2015 to 2017 he was a researcher at the University of Bath He received several awards including from the Faculty of Electronic Engineering Charter in 1980 Charter in 1985 and a Special Recognition in 1995 and the University of Ni Plaque 1985 **Analog Electronics** Balwinder Singh, Ashish Dixit, 2007

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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 Digital Electronics MCQ (Multiple Choice Questions) Arshad Iqbal, The Digital Electronics Multiple Choice Questions MCQ Quiz with Answers PDF Digital Electronics MCQ PDF Download Quiz Questions Chapter 1 25 Practice Tests with Answer Key Electronics Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Digital Electronics MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Digital Electronics MCQ PDF book helps to practice test questions from exam prep notes The Digital Electronics MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Digital Electronics Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Analog to

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