

# HSC महाराष्ट्र राज्य बोर्ड 2023

**Q: If the line  $2x - y + 7 = 0$  touches the curve  $y = ax^2 + bx + 5$  at  $(1, 9)$  then values of  $a$  &  $b$ .**

## Very Short Solution

Given curve is,

$$y = ax^2 + bx + 5$$

$$\Rightarrow \left( \frac{dy}{dx} \right)_{(1, 9)} = 2ax + b = 2a + b \quad \text{--- (i)}$$

Given line is,

$$2x - y + 7 = 0$$

$$\Rightarrow \text{its slope} = m = -\frac{2}{-1} = 2 \quad \text{--- (ii)}$$

$$\Rightarrow \text{from (i) (ii) } 2a + b = 2 \quad \text{--- (iii)}$$

Point  $(1, 9)$  lie on given curve,  
i.e. it satisfy given eq<sup>n</sup> of curve.  
Hence,  $a + b = 4 \quad \text{--- (iv)}$

Solving eq<sup>n</sup> (iii) & (iv) by elimination  
method we get,

$$a = -2 \quad ; \quad b = 6$$

**Application of derivative**

# Application Of Derivative Hsc Of Hots

**M.A. Hayat**



## Application Of Derivative Hsc Of Hots:

*Excel HSC Geography* Rosemary Pashley, 2003 This comprehensive study guide covers every topic in the last two sections of the HSC Geography course and has been specifically created to maximise exam success This guide has been designed to meet all study needs providing up to date information in an easy to use format Excel HSC Geography contains 108 study cards for revision on the go or at home comprehensive coverage of the entire HSC Geography course with maps diagrams and source materials a summary of the outcomes and content for each of the three sections of the course a range of exercises and questions with answers to improve skills in Geography numerous exercises and selected answers to sharpen your geographical skills especially useful for the multiple choice and short answer sections of the HSC exam key words and concepts are highlighted throughout and grouped in a comprehensive glossary extended case studies and information on Ecosystems at Risk Urban Places and People and Economic Activity two sample HSC style examination papers a full colour eight page section of stimulus material lists of useful websites throughout

*Proposed Amendments to the Air Toxics "hot Spots" Fee Regulation, Initial Statement of Reasons for Proposed Rulemaking*, 1993 *Proposed Amendments to the Air Toxics "hot Spots" Fee Regulation*, 1992 **Forming and Forging** ASM Handbook Committee, ASM International. Handbook Committee, 1988 **Proposed Amendments to the Air Toxics "hot Spots" Fee Regulation** California Environmental Protection Agency. Air Resources Board, Sylvia Oey, 1991 *ASM Handbook* S. L. Semiatin, ASM International. Handbook Committee, 1990 These volumes cover the properties processing and applications of metals and nonmetallic engineering materials They are designed to provide the authoritative information and data necessary for the appropriate selection of materials to meet critical design and performance criteria

**Stem Cells and Cancer Stem Cells, Volume 2** M.A. Hayat, 2011-10-17 As in volume 1 of this series this volume presents information on stem cells and cancer stem cells Therapeutic Applications in disease and tissue organ injury Methodologies of regenerative medicine and tissue engineering are major components of this volume Specific stem cells discussed are human embryonic stem cells hematopoietic stem cells cord blood stem cells human pluripotent stem cells gliosarcoma stem cells induced pluripotent stem cells intestinal stem cells human thyroid cancer stem cells tumor stem cells menstrual stem like cells neural stem cells breast cancer stem cells allogeneic mesenchymal stem cells fetal membrane derived mesenchymal stem cells and omental stem cells The method for isolating bone marrow stromal cells is explained Method for generating marmoset induced pluripotent stem cells using transcription factors is also explained Use of stem cell lines in therapeutic applications is discussed Programming of stem cells is described Methods for transplantation of stem cells are presented Use of various types of stem cells for conditions such as stroke ischemia heart diseases Alzheimer's disease and neurodegenerative diseases in general is explained For example generation of human cardiac muscle cells from adipose derived stem cells is included Another example is repairing bone defects using mesenchymal stem cells and mesenchymal derived endothelial cells Differentiation

of new neurons from neural stem cells is described Method for repairing retina condition using human embryonic stem cells is explained these cells can induce neural differentiation Treatment of graft versus host disease resulting from hematopoietic stem cell transplantation is elaborated

**Metals Handbook** ASM International. Handbook Committee, American Society for Metals, 1978

*Hot Topics in Cell Biology* José Becerra, Leonor Santos-Ruiz, 2012 Summary This book is a definitive overview of the current state of the art in cell biology It is based on papers presented by leading researchers at the Spanish Society for Cell Biology's XIV Congress a Congress that strives to achieve scientific excellence Each participant was asked to prepare a mini review of current and likely future development in their area of research This book is based on those reviews As such it is therefore an analysis of current and future trends Key Features Contains contributions from some of the world's leading researchers The book is multidisciplinary covering almost all topics in cell biology from basic to applied cell biology and a wide variety of models from in vitro to vivo models ranging from fish to rodents and humans Each mini review is an easy read piece describing the state of the art on a topic with clear language and in a summary format The mini review format makes the book attractive not only to readers involved in cell biology research and teaching but also professionals from other disciplines and students The book takes a truly multidisciplinary approach it covers a wide array of topics and the book reflects how cell biology interacts with other disciplines The Editors Jose Becerra is Professor of Cell Biology at the University of M laga Spain since 1989 He has been Dean Secretary Vice Dean and Dean of the Faculty of Sciences of M laga and is now the Head of the Department of Cell Biology Genetics and Physiology From 2001 to 2003 he was the Director of the Andalusian Laboratory of Biology LAB Seville which was converted in the Andalusian Centre for Developmental Biology CABD under his term He is a member of the Technical Committee of the National Stem Cell Bank since 2007 patron of the Board of Trustees of IMABIS Foundation Mediterranean Institute for the Advance of Biotechnology and Health Research coordinator of the Biomaterials and Tissue Engineering Area of the the Biomedical Research Networking Center in Bioengineering Biomaterials and Nanomedicine CIBER BBN and member of the Direction Committee of the CIBER BBN Leonor Santos Ruiz is Senior Researcher of the CIBER BBN network at the Andalusian Center for Nanomedicine and Biotechnology BIONAND She started her career studying the cellular and molecular basis of lower vertebrates amazing ability for tissue regeneration with a special attention to bone and spinal cord repair Readership Cell biology academics and researchers Contents Introduction Dynamics of cell compartments The intracellular trafficking Cell signaling Autophagy apoptosis and cell homeostasis Cell biology of aging Plant cell biology Methods in cell biology Applied cell biology Cell biology of cancer Cell therapies and tissue engineering Neurodegeneration and cell biology Nanotechnology and cell biology challenges and opportunities

**Stem Cells and Cancer Stem Cells, Volume 5** M.A. Hayat, 2012-02-21 It is pointed out that a cancer stem cell is a type within a tumor that possesses the capacity of self renewal and can give rise to the heterogeneous lineages of cancer cells which comprise the tumor It is emphasized that a unique feature of cancer stem cells

is that although conventional chemotherapy kills most cells in a tumor cancer stem cells remain intact Vast applications of the following specific stem cells in disease and tissue injury are discussed embryonic stem cells human mesenchymal stem cells cancer stem cells arterial stem cells neural stem cells cardiac stem cells dental stem cells limbal stem cells and hematopoietic stem cells Because human embryonic stem cells possess the potential to produce unlimited quantities of any human cell type considerable focus is placed on their therapeutic potential in this volume These cells are used in tissue engineering regenerative medicine pharmacological and toxicological studies and fundamental studies of cell differentiation It is pointed out that the formation of embryoid bodies which are three dimensional aggregates of embryonic cells is the initial step in the differentiation of these cells Therapeutic implications of signalling pathways in cancer stem cells are pointed out Targeting self renewal pathways in cancer stem cells are also included Application of mesenchymal stem cells for treating ischemic brain injury is explained Neural stem cells proliferation into the surrounding area of the traumatic brain injury is explained

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