



8. At time t seconds, the radius of a spherical balloon is r cm. The balloon is being inflated so that the rate of increase of its radius is inversely proportional to the square root of its radius. When $t = 5$, $r = 9$ and, at this instant, the radius is increasing at 1.08 cm s^{-1} .

(a) Write down a differential equation to model this situation, and solve it to express r in terms of t . [7]

$$\frac{dr}{dt} = \frac{k}{\sqrt{r}}$$

$$\frac{dt}{dr} = \frac{\sqrt{r}}{k}$$

$$\int k dt = \int r^{1/2} dr$$

$$kt = \frac{2r^{3/2}}{3} + c$$

$$t=5, r=9$$

Ocr C4 June 2013 Answers

Patrick Vollmar



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Advances in Swarm and Computational Intelligence Ying Tan, Yuhui Shi, Fernando Buarque, Alexander Gelbukh, Swagatam Das, Andries Engelbrecht, 2015-06-01 This book and its companion volumes LNCS volumes 9140 9141 and 9142 constitute the proceedings of the 6th International Conference on Swarm Intelligence ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence CCI 2015 held in Beijing China in June 2015 The 161 revised full papers presented were carefully reviewed and selected from 294 submissions The papers are organized in 28 cohesive sections covering all major topics of swarm intelligence and computational intelligence research and development such as novel swarm based optimization algorithms and applications particle swarm optimization ant colony optimization artificial bee colony algorithms evolutionary and genetic algorithms differential evolution brain storm optimization algorithm biogeography based optimization cuckoo search hybrid methods multi objective optimization multi agent systems and swarm robotics Neural networks and fuzzy methods data mining approaches information security automation control combinatorial optimization algorithms scheduling and path planning machine learning blind sources separation swarm interaction behavior parameters and system optimization neural networks evolutionary and genetic algorithms fuzzy systems forecasting algorithms classification tracking analysis simulation image and texture analysis dimension reduction system optimization segmentation and detection system machine translation virtual management and disaster analysis

New A-Level Maths for OCR: Year 1 & 2 Exam Practice Workbook CGP BOOKS., 2017-10-20 My Revision Notes: OCR Level 3 Free Standing Mathematics Qualification: Additional Maths (2nd edition) Michael Ling, 2019-11-18 Exam Board OCR Level Free Standing Mathematics Qualification Subject Additional Mathematics First Teaching September 2018 First Exam June 2019 Target success in OCR Additional Mathematics with this proven formula for effective structured revision Key content coverage is combined with numerous worked examples and exam style questions to create a revision guide that students can rely on to review strengthen and test their knowledge Develop the key skills needed for success with skills focused questions around problem solving covering the 2018 specification Strategically target revision with diagnostic questions that establish which topics need focus Get assessment ready with exam style questions and advice on common mistakes and how to show the correct workings Reinforce knowledge and identify weaknesses using hundreds of questions supported by answers in the back of the book

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