MEI AS Mathematics Quadratic functions



Section 2: The quadratic formula

Section test

Find the discriminant of the quadratic equation 2x² +5x-1=0.

2. The quadratic equation in Question 1 has

(a) one real root

(b) two rational roots

(c) two real irrational roots

(d) no real roots

3. Which of the quadratic equations below do not have real roots? Choose as many as apply.

(i)
$$x^2 + 3x + 1 = 0$$

(ii)
$$2x^2 - 3x + 4 = 0$$

(iii)
$$3x^2 + x - 2 = 0$$

4. The roots of the equation $x^2 + 2x - 5 = 0$ are

(a)
$$-1 \pm \sqrt{24}$$

(c)
$$-1 \pm \sqrt{12}$$

(d) There are no real roots

5. The roots of the equation $2x^2 - 11x + 15 = 0$ are

(d) There are no real roots

6. The roots of the equation $3x^2 - 2x + 4 = 0$ are

(d) There are no real roots

7. The roots of the equation $2x^2 - 5x - 4 = 0$ are

(a)
$$\frac{5 \pm \sqrt{57}}{4}$$

(b)
$$\frac{-5 \pm \sqrt{57}}{4}$$

(d)
$$\frac{-5 \pm \sqrt{7}}{4}$$

8. The quadratic equation x² + kx + 2k - 3 = 0 has equal roots. The possible value(s) of k are

(a) 2 or 6

(b) 2 only

(c) 3 or 4

(d) 0 only

9. How many real roots does the equation x* + 6x² + 4 = 0 have?

Mei Graphs Section 1 Answers

D Kirk

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probability statistics derivatives and its applications and functions o **Textbook of Anatomy** Inderbir Singh,2011-09 Textbook of Anatomy is divided into three volumes with volume one on upper and lower extremities volume two on thorax abdomen and pelvis and volume three on head neck and central nervous system Written for both undergraduate and postgraduate students the text is presented in an easy to understand format with detailed explanations of clinical correlations of anatomical structures Each volume contains numerous high quality illustrations and tables to enhance learning as well as supplementary free online access to a colour atlas review questions and answers and self assessment of pictures

Analytic Trends in Mathematical Physics Houssam Abdul-Rahman, Robert Sims, Amanda Young, 2020-01-06 This volume contains the proceedings of the Arizona School of Analysis and Mathematical Physics held from March 5 9 2018 at the University of Arizona Tucson Arizona A main goal of this school was to introduce graduate students and postdocs to exciting topics of current research that are both influenced by physical intuition and require the use of cutting edge mathematics. The articles in this volume reflect recent progress and innovative techniques developed within mathematical physics. Two works investigate spectral gaps of quantum spin systems Specifically Abdul Rahman Lemm Lucia Nachtergaele and Young consider decorated AKLT models and Lemm demonstrates a finite size criterion for D D dimensional models. Bachmann De Roeck and Fraas summarize a recent proof of the adiabatic theorem while Bachmann Bols De Roeck and Fraas discuss linear response for interacting Hall insulators Models on general graphs are the topic of the articles by Fischbacher on higher spin XXZ and by Latushkin and Sukhtaiev on an index theorem for Schr dinger operators Probabilistic applications are the focus of the articles by DeMuse and Yin on exponential random graphs by Saenz on KPZ universality and by Stolz on disordered quantum spin chains In all the diversity represented here is a testament to the enthusiasm this rich field of mathematical physics generates.

Economics Avi J. Cohen, Harvey B. King, Michael Parkin, David E. Spencer, 1994

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