

MATHEMATICS N3 / INTRODUCTION TO ENGINEERING MATHEMATICS

QUESTION 1

(14 MARKS)

1.1 Factorise the following expressions as far as possible in prime factors:

1.1.1 $x^2(p - q) + 3x(q - p) - 18(p - q)$ (4)

1.1.2 $5(x + 1)^2 - 17(x + 1) + 6$ (3)

1.2 Simplify the following algebraic fractions:

1.2.1 $\frac{rp^2 - rq^2}{p^2 - 2pq + q^2} \div \frac{rp^2 - rp + rpq - rq}{p^2 - pq - p + q}$ (4)

1.3 Prove that $2x - 6$ is a factor of $2x^3 - 6x^2 + 4x - 12$ (3)

Electrical Engineering Mathematics N3 Question Papers

JG Myers



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publication Volume 4A surely belongs beside the first three volumes of this classic work in every serious programmer's library. Finally after a wait of more than thirty five years the first part of Volume 4 is at last ready for publication. Check out the boxed set that brings together Volumes 1-4A in one elegant case and offers the purchaser a 50% discount off the price of buying the four volumes individually. Ebook PDF version produced by Mathematical Sciences Publishers MSP <http://msp.org>

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New material for Volume 4 will first appear in beta test form as fascicles of approximately 128 pages each, issued approximately twice per year. These fascicles will represent my best attempt to write a comprehensive account, but computer science has grown to the point where I cannot hope to be an authority on all the material covered in these books. Therefore I'll need feedback from readers in order to prepare the official volumes later. For example, the following fascicles appeared before the hardcover editions of Volumes 4A and 4B were complete:

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