

QUESTION 1: FACTORISE

- 1.1 Factorise the following expression completely:

$$x\left(\frac{2x^2}{x} - \frac{3xy}{x}\right) + y\left(\frac{2xy}{y} - \frac{3y^2}{y}\right) \quad (3)$$

- 1.2 When $f(x) = 3ax^3 + 2x^2 - 7x + 3$ is divided by $2x + 1$ the remainder is $-\frac{a}{2}$.

Determine the value or values of a . (5)

- 1.3 Simplify the following expression:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2} \quad (6)$$

[14]

QUESTION 2: FACTORISE – AUG 18

- 2.1 Simplify the following algebraic fraction:

$$\frac{x^2 - 4}{3x^2 + 4x - 4} \div \frac{x^2 - 4x + 4}{2x^2 - 11x + 14} \times \frac{3x - 2}{6x - 21} \quad (5)$$

- 2.2 When $f(x)$ is divided by $2x - 3$ the remainder is 4.

Determine the value of p if $f(x) = 2x^3 - px^2 + 6x - 5$. (4)

- 2.3 Factorise the following expression completely:
 $ax + 9by - 3ay - 3bx$ (3)

- 2.4 Simplify the following expression:

$$\frac{x + 9x^{\frac{1}{2}}}{x + 7x^{\frac{1}{2}} - 18} \div \left(1 - \frac{2}{x^{\frac{1}{2}}}\right)^{-1} \quad (5)$$

[17]

QUESTION 3: FACTORISE

- 3.1 Factorise the following as far as possible in prime factors:

3.1.1 $5x^4 - 5y^4$

3.1.2 $15x^2y^2 - 25xy^3 - 10y^4$

(2 × 3) (6)

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Algorithms - ESA 2014 Andreas S. Schulz,Dorothea Wagner,2014-08-16 This book constitutes the refereed proceedings of the 22st Annual European Symposium on Algorithms ESA 2014 held in Wroc aw Poland in September 2014 as part of ALGO 2014 The 69 revised full papers presented were carefully reviewed and selected from 269 initial submissions 57 out of 221 in Track A Design and Analysis and 12 out of 48 in Track B Engineering and Applications The papers present original research in the areas of design and mathematical analysis of algorithms engineering experimental analysis and real world applications of algorithms and data structures

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Language and Automata Theory and Applications Shmuel Tomi Klein,Carlos Martín-Vide,Dana Shapira,2018-04-03 This book constitutes the refereed proceedings of the 12th International Conference on Language and Automata Theory and Applications LATA 2018 held in Ramat Gan Israel in April 2018 The 20 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 58 submissions The papers cover fields like algebraic language theory algorithms for semi structured data mining algorithms on automata and words automata and logic automata for system analysis and programme verification automata networks automatic structures codes combinatorics on words computational complexity concurrency and Petri nets data and image compression descriptive complexity foundations of finite state technology foundations of XML grammars Chomsky hierarchy contextual unification categorial etc

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 constitutes the refereed proceedings of the 9th International Symposium on Algorithmic Game Theory SAGT 2016 held in
 Liverpool UK in September 2016 The 26 full papers presented together with 2 one page abstracts were carefully reviewed
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