QUESTION 1: FACTORISE

1.1 Factorise the following expression completely:

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

(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:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2}$$

(6)

[14]

QUESTION 2: FACTORISE – AUG 18

2.1 Simplify the following algebraic fraction:

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

(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:

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

(5)

[17]

QUESTION 3: FACTORISE

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

3.1.1 $5x^4 - 5y^8$

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

(2×3) (6)

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Annelies Wilder-Smith

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