



MINIA UNIVERSITY
MiniaUniversity
Faculty of Science
Math Dept.

Class: first year FCI
Subject: Qualifying Mathematics
Code: BMA001
Final Examination

Time: 2 hours
Mar.: 2021

Answer the following questions:

First: calculus (30 marks)

(1)(a) Let $R = \{(a, b): a \in A, b \in B \text{ and } 2a + b = 7\}$ be a relation from $A = \{1, 2, 3\}$ to $B = \{1, 2, 3, 4, 5, 6\}$ find R and R^{-1} .

(b) Sketch the curves of the functions:

(i) $y = x^3$, (ii) $y = \cos x$ and give the domain and rang of them.

(2) Find the inverse of the function $y = 2x - 3$ and find $(f \circ f^{-1})(2)$.

(3) Find: $\lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^{5n-1}$, $\lim_{x \rightarrow 0} \frac{\sin 3x}{\tan 4x}$, $\lim_{x \rightarrow \infty} \frac{3x^2-5}{4x^2-3x+2}$.

(4) If $f(x) = \begin{cases} \frac{x^3-8}{x-2}, & x \neq 2 \\ 4, & x = 2 \end{cases}$, is $f(x)$ continuous at $x = 2$?

(5) Find $\frac{dy}{dx}$ of the following functions:

(i) $y = (x^2 + 3x + 4)^5$, (ii) $y = x^2 e^{\tan x} + \frac{\sec x}{4x-2}$,
(iii) $y = \sin^3(2x-3)$.

Second: Algebra (30 marks)

(1) Find the middle term of $(3x^2 + \frac{1}{2x})^{10}$.

(2) Find the expansion of $(x + \frac{1}{x})^4$.

(3) Show that $\binom{n}{r} = \binom{n}{n-r}$, If $\binom{10}{r} = \binom{10}{2r+1}$ find the value of r .

(4) (a) How many four digit numbers can be formed with digits 1, 2, 3 and 4 with distinct digits?

(b) Out of 5 men and 3 women, a committee of 3 persons is to be formed. In how many ways can it be formed selecting (i) exactly 1 women (ii) at least 1 women?

أ.م.د. عبد الرحمن محمد شحاته

مع تمنياتي لكم بالتوفيق.

Good Luck,

2021

1) $2a + b = 7$

$(1, 1), (1, 2), (1, 3), (1, 4), (1, 5), (1, 6)$

$(2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6)$

$(3, 1), (3, 2), (3, 3), (3, 4), (3, 5), (3, 6)$

$R = \{(1, 5), (2, 3), (3, 1)\}$

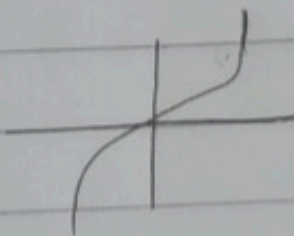
$R' = \{(5, 1), (3, 2), (1, 3)\}$

b)

1) $y = x^3$

Domain = R

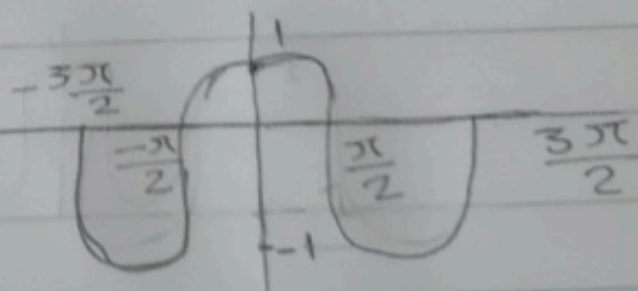
Range = R



2) $y = \cos x$

Domain = R

Range $[-1, 1]$



$$2) \quad y = 2x - 3 \\ x = 2y - 3 \Rightarrow y = \frac{x+3}{2} = f^{-1}(x)$$

$$f \circ f^{-1} = 2\left(\frac{x+3}{2}\right) - 3$$

$$\therefore f(x) \circ f^{-1}(x) = 2$$

$$(3) \quad \lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^{5n-1}$$

$$\lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^{5n} \left(1 + \frac{2}{n}\right)^{-1}$$

$$\left[\lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^n \right]^5 \times 1$$

$$[e^2]^5 = e^{10}$$

$$\lim_{x \rightarrow 0} \frac{\frac{\sin 3x}{x}}{\frac{\tan 4x}{x}} = \frac{3}{4}$$

$$\lim_{x \rightarrow \infty} \frac{6x}{8x-3} = \lim_{x \rightarrow \infty} \frac{6}{8} = \frac{3}{4}$$

4) ??

i) $y = (x^2 + 3x + 4)^5$

$$y' = 5(x^2 + 3x + 4)^4 \cdot 2x + 3$$

ii) $y = x^2 e^{\tan x} + \frac{\sec x}{4x - 2}$

$$y' = 2x \cdot e^{\tan x} + e^{\tan x} \cdot \sec^2 x \cdot x^2 + \frac{(4x - 2 \cdot \tan x - 4 \cdot \sec x)}{(4x - 2)^2}$$

$$y' = 2x e^{\tan x} + x^2 \sec^2 x e^{\tan x} +$$

$$\frac{(4x - 2 \tan x - 4 \sec x)}{(4x - 2)^2}$$

$y = \sin^3(2x - 3)$

$$3 \sin^2(2x - 3) \cdot (\cos(2x - 3)) \cdot 2$$



Minia University
Level: 1st year... Students
Subject: Qualifying math.
Code: BMAD01

Faculty of Computers &
Informatics
Academic Year (2019/2020)
First Term - Final Examination



Date: 19/1/2020
Time: 2 hours

Answer the following questions:

First: calculus (30 marks):

- (1) Let $R = \{(a, b) : a \in A, b \in B \text{ and } b = a + 1\}$ be a relation from $A = \{1, 3, 4\}$ to $B = \{2, 3, 4, 5\}$ find R and R^{-1} .

$$y = x + 5$$

$$x = y - 5$$

$$x = \frac{y}{3} + \frac{5}{3}$$
- (2) Sketch the curves of the functions: (i) $y = x^3$, (ii) $y = \sin x$ and give the domain and rang of them.
- (3) Find the inverse of the function $y = 3x - 5$ and find $(f \circ f^{-1})(2)$.
- (4) Find: $\lim_{n \rightarrow 0} \left(1 + \frac{2}{n}\right)^{3n-1}$, $\lim_{n \rightarrow 0} \frac{\sin 3x}{7x}$, $\lim_{n \rightarrow \infty} \frac{x^2 + 3x - 5}{4x^2 - 3x + 2}$.
- (5) If $f(x) = \begin{cases} \frac{x^2 - 9}{x - 3}, & x \neq 3 \\ 5, & x = 3 \end{cases}$, is $f(x)$ continuous at $x = 3$?
- (6) Find $\frac{dy}{dx}$ of the following functions:

- (i) $y = (x^2 + 3x + 4)^5$, (ii) $y = x^2 \tan x + \sin^3(2x - 3)$,
 (iii) $x^2 + 3xy + 4y^2 = 5$.

Second: Algebra (30 marks)

- (1) Write $\frac{1-2i}{1+3i}$ in its general form.
- (2) Expand $\left(x - \frac{1}{x}\right)^4$ by the binomial formula.
- (3) Find the middle term of $\left(\frac{a}{2} - \frac{b}{3}\right)^{11}$.
- (4) Show that $\binom{n}{r} = \binom{n}{n-r}$, If $\binom{10}{r} = \binom{10}{2r+1}$ find the value of r .
- (5) (i) How many 3 digit numbers are multiples of 5?
 (ii) In a box, there are 5 black pens, 3 white pens and 4 red pens.
 In how many ways can 2 black pens, 2 white pens and 2 red pens can be chosen?
 مع تمنياتي لكم بالتوفيق. أ.م.د. عبد الرحمن محمد شحاته

5 3 4

Good Luck,



2018

$$b = a + 1$$

$(1, 2) (1, 3) (1, 4) (1, 5)$

$(3, 2) (3, 3) (3, 4) (3, 5)$

$(4, 2) (4, 3) (4, 4) (4, 5)$

$$R = \{(1, 2) (3, 4) (4, 5)\}$$

$$R' = \{(2, 1) (4, 3) (5, 4)\}$$

$$y = x^3 \quad 2021 \text{ is lower}$$

$$y = \sin x$$





$$3) y = 3x - 5$$

$$x = 3y - 5 \Rightarrow y = \frac{x+5}{3} = F^{-1}$$

$$f \circ f^{-1} = 3\left(\frac{x+5}{3}\right) - 5$$

$$f \circ f^{-1} = 2$$

4)

$$\lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^{3n-1} = \lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^{3n} \left(1 + \frac{2}{n}\right)^{-1}$$

$$= \left[\left(1 + \frac{2}{n}\right)^n\right]^3 = [e^2]^3 = e^6$$

$$\lim_{x \rightarrow 0} \frac{\sin 3x}{7x} = \frac{\sin 3x}{x} \cdot \frac{x}{7x} = \frac{3}{7}$$

$$\lim_{x \rightarrow \infty} \frac{x^2 + 3x - 5}{4x^2 - 3x + 2} = \lim_{x \rightarrow \infty} \frac{2x + 3}{8x - 3}$$

$$\lim_{x \rightarrow \infty} \frac{2}{8} = \frac{1}{4}$$

5



6)

i) ~~10-10~~

ii) $y = x^2 \tan x + \sin^3(2x-3)$

$$y' = 2x \cdot \tan x + x^2 \cdot \sec^2 x + 3 \sin^2(2x-3) \cdot \cos(2x-3) \cdot 2$$

$$y' = 2x \tan x + x^2 \sec^2 x + 3 \sin^2(2x-3) \cdot \cos(2x-3) \cdot 2$$

iii) $x^2 + 3xy + 4y^2 = 5$

$$2x + 3y + 3xy' + 4yy' = 0$$

$$3xy' + 4yy' = -2x - 3y$$

$$y'(3x + 4y) = -2x - 3y$$

$$y' = \frac{-2x - 3y}{3x + 4y}$$

$$1) \frac{1-2i}{1+3i} \times \frac{1-3i}{1-3i}$$

$$\frac{1-3i-2i+6i^2}{1-3i+3i-9i^2} = \frac{1+6-5i}{1+9}$$

$$\frac{-5}{10} - \frac{5i}{10}$$

2) 2021 è la tua

$$3) \frac{n+1}{2}, \frac{n+1}{2} + 1$$

$$\frac{11+1}{2} = 6, \frac{11+1}{2} + 1 = 7$$

$$T_6 = C_5^{11} \left(\frac{a}{2}\right)^6 \left(\frac{b}{3}\right)^5 = -\frac{77}{2592} a^6 b^5$$

$$T_7 = C_6^{11} \left(\frac{a}{2}\right)^5 \left(\frac{b}{3}\right)^6 = \frac{77}{3888} a^5 b^6$$

4) 2021 è la tua



MINIA UNIVERSITY
MiniaUniversity

Faculty of Science
Math.Dept.

Class: first year FCI
Subject: Qualifying Mathematics
Code: BMA001
Mid Term Examination



Time: 3 hours
Jan...5/1/2019

Answer the following questions:

First: calculus (30 marks)

(1)(a) Let $R = \{(a, b): a \in A, b \in B \text{ and } a + b = 7\}$ be a relation from $A = \{1, 2, 3\}$ to $B = \{2, 3, 4, 5, 6\}$ find R and R^{-1} .

(b) Sketch the curves of the functions:

(i) $y = x^2$, (ii) $y = \sin x$ and give the domain and rang of them.

(2) Find the inverse of the function $y = 3x + 5$ and find $(f \circ f^{-1})(2)$.

(3) Find: $\lim_{n \rightarrow \infty} \left(1 + \frac{2}{n}\right)^{5n-1}$, $\lim_{x \rightarrow 0} \frac{\sin 3x}{4x}$, $\lim_{x \rightarrow \infty} \frac{2x-5}{4x^2-3x+2}$.

(4) If $f(x) = \begin{cases} \frac{x^2-4}{x-2}, & x \neq 2 \\ 4, & x = 2 \end{cases}$, is $f(x)$ continuous at $x = 2$?

(5) Find $\frac{dy}{dx}$ of the following functions:

(i) $y = (x^2 + 3x + 4)^5$, (ii) $y = x^2 e^{\tan x} + \frac{\sec x}{4x-2}$,

(iii) $y = \sin^3(2x-3)$.

Second: Algebra (30 marks)

(1) Write $\frac{1+3i}{1-2i}$ in its general form.

(2) Find the middle term of $(3x^2 + \frac{1}{2x})^{10}$.

(3) Find the square roots of $z = 1 + i$.

(4) Show that $\binom{n}{r} = \binom{n}{n-r}$. If $\binom{10}{r} = \binom{10}{2r+1}$ find the value of r .

(5) Find the 5th term of $(x - \frac{1}{x})^9$.

أ.م.د. عبد الرحمن محمد شحاته

مع تمنياتي لكم بالتوفيق.

Good Luck,

2019

1) (a) Limit

(b) $y = x^2$



Domain = \mathbb{R}

Range = $[0, \infty[$

$\sin x$

2018 i Limit

2) $y = 3x + 5$

$$x = \frac{y - 5}{3}$$

$$y = \frac{x - 5}{3} = f^{-1}$$

$$f \circ f^{-1} = 3 \left(\frac{x - 5}{3} \right) + 5$$

$$f \circ f^{-1} = 2$$

3 i) Limit

$$\text{ii) } \frac{\frac{\sin 3x}{x}}{\frac{4x}{x}} = \frac{3}{4}$$

iii) Limit

11

$$1) \frac{1+3i}{1-2i} \cdot \frac{1+2i}{1+2i}$$

$$= \frac{1+2i+3i+6i^2}{1+4} = \frac{-5+5i}{5}$$

$$= -1+i$$

$$2) (3x^2 + \frac{1}{2x})^{10}$$

$$\frac{10}{2} + 1 = 6$$

$$T_6 = C_5^{10} (3x^2)^5 (\frac{1}{2x})^5 = \underline{252}$$

$$= 252 (243 x^{10}) \cdot (\frac{1}{32 x^5}) = \frac{15309}{8} x^5$$

3)

4) 10745

5) $(x - \frac{1}{x})^9$

$$T_5 = {}^9C_4 x^5 \left(-\frac{1}{x}\right)^4$$

$$= \frac{9!}{4!5!} x^5 \cdot \frac{1}{x^4} = 126x$$



Mina University

Level: 1st year, Students

Subject: Qualifying math

Code: BMAD01

Academic Year (2017/2018)

First Term - Final Examination



Faculty of Computers & Informatics

Date: .../.../2018

Time: ...2 hours

Answer the following questions:

First: calculus (30 marks)

- (1) Sketch the curves of the functions: (i) $y = e^{-x}$, (ii) $y = \sin x$
and give the domain and rang of them.
- (2) Find the inverse of the function $y = 3x - 4$ and find $(f, f^{-1})(2)$.
- (3) Find: $\lim_{n \rightarrow \infty} \left(1 - \frac{2}{n}\right)^{3n+1}$, $\lim_{n \rightarrow 0} \frac{\sin 3x}{x}$, $\lim_{n \rightarrow \infty} \frac{3x^2 + 2x - 5}{4x^2 - 3x + 2}$.
- (4) If $f(x) = \begin{cases} \frac{x^3 - 27}{x - 3}, & x \neq 3 \\ 6, & x = 3 \end{cases}$, is $f(x)$ continuous at $x = 3$?
- (5) Find $\frac{dy}{dx}$ of the following functions:
(i) $y = (x^2 + 3x + 4)^5$, (ii) $y = x^2 e^{\tan x} + \sec x \ln(x^2 + 3x - 2)$,
(iii) $y = \cos x \alpha^x + \sin^2(2x - 3)$.

Second: Algebra (30 marks)

- (1) Write $\frac{(1+i)(2-i)}{(3+i)}$ in its general form.
- (2) The middle term of $\left(\frac{x}{y} - \frac{y}{x}\right)^4$ is $\frac{4x^2}{y^2}$, 6 , 8 , $\frac{4x}{y}$.
- (3) find the roots of $((1 - i)^{1/3})$.
- (4) Show that $\binom{n}{r} = \binom{n}{n-r}$, If $\binom{10}{r} = \binom{10}{2r+1}$ find the value of r .
- (5) (i) How many multiples of 5 are there from 10 to 95?
(ii) In a box, there are 5 black pens, 3 white pens and 4 red pens.
In how many ways can 2 black pens, 2 white pens and 2 red pens can be chosen?

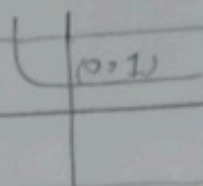
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مع تمنياتي لكم بالتوفيق.

Good Luck,

2017

1) $y = e^{-x}$



Domain = \mathbb{R}

Range = $]0, \infty[$

2) $y = \sin x$ Laws

2) $y = 3x - 4$

$x = \frac{y + 4}{3}$

$y = \frac{x + 4}{3}$

$f \circ f^{-1} = 3 \cdot \left(\frac{x + 4}{3} \right) - 4$

$f \circ f^{-1} = 2$

3) $\lim_{n \rightarrow \infty} \left(1 - \frac{2}{n} \right)^{3n+1}$

$\lim_{n \rightarrow \infty} \left(1 - \frac{2}{n} \right)^{3n} \left(1 - \frac{2}{n} \right)$

$[e^2]^3 = e^6$

$$\lim_{n \rightarrow 0} \frac{\sin 3x}{x} = \lim_{n \rightarrow 0} \frac{\frac{\sin 3x}{x}}{\frac{x}{x}} = 3$$

3) La-tuo

4) ??

1) La-tuo

$$2) y = x^2 e^{\tan x} + \sec x \ln(x^2 + 3x - 2)$$

$$y' = x^2 \cdot e^{\tan x} \cdot \sec^2 x + 2x e^{\tan x} + \sec x \cdot \left(\frac{2x+3}{x^2+3x-2} \right) + \tan x \sec x \cdot \ln(x^2 + 3x - 2)$$

$$3) y = \cos x a^2 + \sin^3(2x-3)$$

$$y' = \cos x \cdot 2a + \sin x \cdot a^2 + 3 \sin^2(2x-3) \cdot 2$$

$$= 2a \cos x - a^2 \sin x + 6 \sin^2(2x-3)$$

$$\frac{(1+i)(2-i)}{(3+i)}$$

$$\frac{(2-i+2i-i^2)}{(3+i)} = \frac{2-3i-i^2}{3+i} \cdot \frac{3-i}{3-i}$$

$$= \frac{9+1}{10} = 1$$

2) 6

$$\frac{4}{2} + 1 = 3$$

$$T_3 = C_2^4 \left(\frac{x}{y}\right)^2 \left(-\frac{y}{x}\right)^2 = \frac{4!}{2!2!} = 6$$

3)

4) 10^{-10}

5) i) $2 \times 9 = 18$

ii)

جامعة المنيا امتحان منتصف الفصل الدراسي الأول ٢٠١٧/٢٠١٨ الزمن: ساعة

كلية العلوم - قسم الرياضيات الفرقة: أولى حوسبة حيوية معلوماتية المادة: تاهيلي رياضيات

اجب عن الأسئلة التالية:

أولا : التفاضل :

(1) Sketch the curves of the functions:

(i) $y = e^x$, (ii) $y = x^3$ and give the domain and rang of them.

(2) Find the inverse of the function $y = 2x - 3$.

(3) Find: $\lim_{n \rightarrow \infty} \left(1 - \frac{3}{n}\right)^{2n}$.

ثانيا : الجبر :

(1) Find the 7^{th} term in the expansion of $\left(x - \frac{1}{x}\right)^9$.

(2) find the roots of $(1 - \sqrt{3}i)^{1/3}$.

(3) Express $\cos 3\theta$ in terms of $\cos \theta$ and $\sin \theta$.

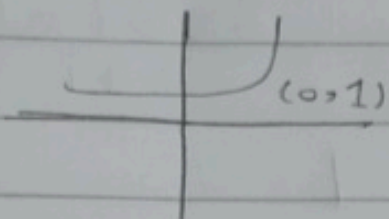
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Handwritten notes and diagrams are visible at the bottom of the page, including a diagram of a circle with points labeled $\frac{\pi}{3}$, $\frac{2\pi}{3}$, $\frac{4\pi}{3}$, and $\frac{5\pi}{3}$, and a diagram of a triangle with angles labeled $\frac{\pi}{2}$, $\frac{\pi}{3}$, and $\frac{\pi}{6}$.

2017

1) $y = e^x$



Domain = \mathbb{R}

Range = $]0, \infty[$

2) $y = x^3$

10-10-10

$$y = 2x - 3$$

$$x = \frac{y + 3}{2}$$

$$y = \frac{x + 3}{2} = f^{-1}$$

$$f \circ f^{-1} = 2 \left(\frac{x + 3}{2} \right) - 3$$

$$f \circ f^{-1} = 2$$

$$\lim_{n \rightarrow \infty} \left(1 - \frac{3}{n} \right)^{2n} = (e^{-3})^2 = e^{-6}$$

$$(x - \frac{1}{x})^9$$

$$T_7 = C_9^6 x^3 \left(-\frac{1}{x}\right)^6 = -\frac{84}{x^3}$$

2) ??

3) ??

Answer the following questions:

First: calculus (30 marks)

- (1)(a) Sketch the curves of the functions: (i) $y = 2x + 1$, (ii) $y = e^x$,
and give the domain and rang of them.
- (b) Find the inverse of the function $y = 5x - 2$ and find $(f \circ f^{-1})(2)$.

(2)(a) Find: $\lim_{n \rightarrow 0} \left(1 - \frac{2}{n}\right)^{3n+1}$, $\lim_{n \rightarrow 0} \frac{\sin 3x}{x}$, $\lim_{n \rightarrow \infty} \frac{3x^2 + 2x - 5}{4x^2 - 3x + 2}$.

(b) If $f(x) = \begin{cases} \frac{x^2 - 4}{x - 2}, & x \neq 2 \\ 4, & x = 2 \end{cases}$, is $f(x)$ continuous at $x = 2$?

(3) Find $\frac{dy}{dx}$ of the following functions:

(i) $y = (x^2 + 3x + 4)^5$, (ii) $y = x^2 e^{\tan x} + \cos x \ln(x^2 + 3x - 2)$,
(iii) $y = \sec^2 x + \sin^3(2x - 3)$.

Second: Algebra (30 marks)

(1) Write $\frac{(3+i)(2-i)}{(1+i)}$ in its general form.

(2) Find the third term of $(x - y)^4$.

(3) find the roots of $((1 + i)^{1/3})$.

(4) Show that $\binom{n}{r} = \binom{n}{n-r}$, If $\binom{10}{r} = \binom{10}{2r+1}$ find the value of r .

(5) (i) If you have 6 new year greeting cards and you want to send them to 4 of your friends, in how many ways can this be done?

(ii) In a box, there are 5 black pens, 3 white pens and 4 red pens.

In how many ways can 2 black pens, 2 white pens and 2 red pens can be chosen?

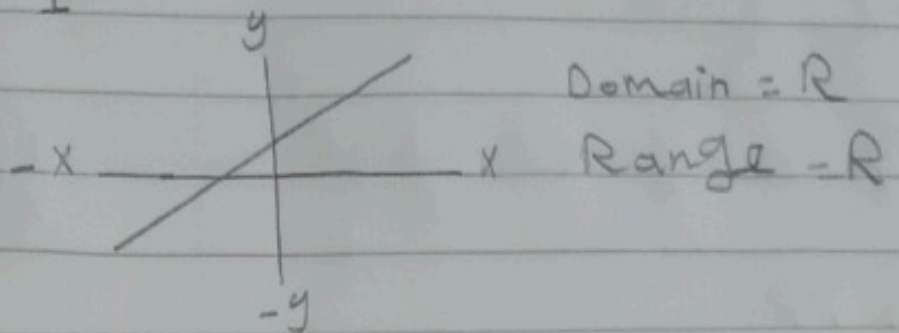
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مع تمنياتي لكم بالتوفيق.

Good Luck,

2018

1) $y = 2x + 1$



2) e^x لا يُحل

$y = 5x - 2$

$x = 5y - 2$

$\therefore f \circ f^{-1}(2) = 2$

2) مسائل قبل كذا

1) لا يُحل ، 2) ، 3

3)

1, 2 لا يُحل

3) $y = \sec^2 x + \sin^3(2x-3)$

$y' = 2 \sec x \cdot 1 + 3 \sin^2(2x-3) \cdot 2$

$y' = 2 \sec x + 6 \sin^2(2x-3)$

الجبر

1) لا يوجد

2) $(x-y)^4$

$$T_3 = C_2^4 x^2 (-y)^2$$

$$= -6x^2y^2$$

3) ??

4) لا يوجد

5) ??

Answer the following questions:

First: calculus (10 marks)

(1) Let $R = \{(a, b) : a \in A, b \in B \text{ and } a < b\}$ be a relation from $A = \{1, 4, 5\}$ to $B = \{2, 3, 4, 5\}$ find R and R^{-1} .

(2) Find the inverse of the function $y = 3x + 2$ and find $(f \circ f^{-1})(2)$.

Second: Algebra (10 marks)

(1) Find the 7^{th} term of $(x - \frac{1}{x})^9$.

(2) The middle term of $(\frac{x}{y} - \frac{y}{x})^4$ is $\frac{4x^2}{y^2}, 6, 8, \frac{4x}{y}$.

أ.م.د. عبد الرحمن محمد شحاته

مع تمنياتي لكم بالتوفيق.
Good Luck,

218

1) $a < b$

$$(1, 2) (1, 3) (1, 4) (1, 5)$$

$$(4, 2) (4, 3) (4, 4) (4, 5)$$

$$(5, 2) (5, 3) (5, 4) (5, 5)$$

$$R = \{ (1, 2) (1, 3) (1, 4) (1, 5) (4, 5) \}$$

$$R' = \{ (2, 1) (3, 1) (4, 1) (5, 1) (5, 4) \}$$

2) $y = 3x + 2$

$$x = 3y + 2$$

$$y = \frac{x-2}{3}$$

$$f \circ f^{-1} = 2$$

الجبر

1) $(x - \frac{1}{x})^9$ مصطلح قبل كسرة
 $= -\frac{84}{x^3}$

2) مصطلح = 6