University of Eloued

Exact sciences Faculty

Examination time: 1h30

Solution

Name: .... **Group:** ....

Lev: 1st **I**

Mod: English

2024/2025

Exercise 1: Write the verbs in brackets in the correct form. **(4 pts).**

(0٨) (1) She (study) .studies....... in the library everyday.

(0٨) (2) When i was young, i (want) ...wanted..... to become an astronaut.

(0٨) (3) It (rain) was raining. heavily, when i woke up this morning.

(0٨) (4) Ali (travel) will travel to Istanbul next week.

Exercise 2: Translate these terms to arabic. **(6 pts).**

(0,٧) (1) Fraction: ....كسر............ (0,٧) (2) Integral:............تكامل...........

(0,٧) (3) Polynomial: ......كثير حدود....... (0,٧) (4) Prime number:..........عدد أولي...

(0,٧) (5) Derivative: ....مشتقة...... (0,٧) (6) Addition: ....جمع.......

(0,٧) (7) Function:................دالة......... (0,٧) (8) divisor:...... ....قاسم.....

Exercise 3: Write in letters the following statements. **(6 pts)**

(١,٧) (1) $\forall x \in \mathbb{R}_+; |x| = x.$ For all positive real number x, we have the absolute

(١,٧) (2) $\sqrt[n]{a}$ The n th root of a. $\quad$ value of x equals x.

(١,٧) (3) $\overline{2-3i} = 2+3i$ The complex conjugate of two minus three times i equals two plus three times i

∄

(4) $\forall a,b \in \mathbb{R}; a^2+b^2 \geq 2ab$ For all a and b real numbers, we have

(١,٧) a squared plus b squared is greater than two times a times b.

Exercise 4: Write in formula form the following equations. **(4 pts)**

(١) (1) C equals L over R squared, plus omega squared times L cubed.

$$C = \frac{L}{R^2} + \Omega^2 \times L^3.$$

(١) (2) E equals lambda to the power of five.

$$E = \lambda^5.$$

(١) (3) There exists a real number x, such that for all real number y; we have x plus y equals ten.

$$\exists x \in \mathbb{R}, \forall y \in \mathbb{R}; x+y=10.$$

(١) (4) For all q rational number, there exist a and b integer numbers s.t q equals a over b.

$$\forall q \in \mathbb{Q}, \exists a,b \in \mathbb{Z}; q = \frac{a}{b}.$$

Good luck!