

Question 10

10.1. Define the α -

$$\alpha(x, y) = \max\{x, y\} - \min\{x, y\} \quad (10)$$

10.2. Show that $\alpha(x, y) = 0$ if and only if $x = y$ (where x and y are elements of \mathbb{R}) (10)

$$\alpha(x, y) = \sqrt{(x-y)^2} = |x-y| \quad (10)$$

$$\alpha(x, y) = |x-y| = \sqrt{(x-y)^2} = 0 \quad (10)$$

10.3. Define the α -metric on \mathbb{R} as follows:

$$\alpha(x, y) = |x-y| \quad (10)$$

Question 11

11.1. The roots of a quadratic equation are given by

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

11.2. If $a = 1$, determine the nature of roots (10)

11.3. Determine the values of a for which the roots are real (10)

11.4. For what values of a do both α and β are roots of the equation $x^2 - 3x + 2 = 0$? (10)

Question 12

12.1. Simplify the following expression:

$$\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4} \quad (10)$$

$$\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4} = \frac{x^2 - x + 1}{x^4} \quad (10)$$

12.2. Show that $\frac{1}{x^2} - \frac{1}{x^3} + \frac{1}{x^4}$ is a rational function of x (10)

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