

King Fahd University of Petroleum and Minerals
Mathematical Sciences Department
Math 001
Quiz # 4
Term(031)

Instructor: Al-Absi, Bassam

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Student's Name:.....

ID:SEC: ...

1) Write the complex number

$$z = \frac{\sqrt{-16} + i^{17}}{2i - \sqrt[3]{-8}} \text{ in standard form.}$$

2) Find the **real part** and the **imaginary part** of $z = \sqrt{-9}\sqrt{-4} + (1 + 2i)^2$

3) Find the conjugate of $2i^{-31}$

4) Find the solution set of the equation

$$\frac{t}{t-4} + 3 = \frac{4}{t-4}$$

5) Solve the equation

$$|x + 7| = -(x + 7)$$

6) Solve $\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$ for R_1