

MATH198 Solution Sheet 1

1. Given that $z_1 = 3 - 2i$ and $z_2 = 2 + i$

(a) determine

(i) $|z_1|$, (ii) $\operatorname{Re} z_1$, (iii) $\operatorname{Im} z_2$.

(i) $|z_1| = \sqrt{3^2 + (-2)^2} = \underline{\underline{\sqrt{13}}}$. Note: Not $\sqrt{3^2 + (-2i)^2}$.

(ii) $\operatorname{Re} z_1 = \underline{\underline{3}}$

(iii) $\operatorname{Im} z_2 = \underline{\underline{1}}$. By definition, $\operatorname{Im}(a + ib) = b$.

(b) Determine in the form $a + ib$

(i) $2z_1 + 3z_2$, (ii) $z_1 z_2$, (iii) $\frac{1}{z_1}$, (iv) $\frac{z_1}{z_2}$.

(i) $2z_1 + 3z_2 = 2(3 - 2i) + 3(2 + i) = 6 - 4i + 6 + 3i = \underline{\underline{12 - i}}$

(ii) $z_1 z_2 = (3 - 2i)(2 + i) = 6 + 3i - 4i - 2i^2 = \underline{\underline{8 - i}}$

(iii) $\frac{1}{z_1} = \frac{1}{3 - 2i} = \frac{1}{3 - 2i} \frac{3 + 2i}{3 + 2i} = \frac{3 + 2i}{9 + 4} = \underline{\underline{\frac{3}{13} + \frac{2}{13}i}}$

(iv) $\frac{z_1}{z_2} = \frac{3 - 2i}{2 + i} = \frac{(3 - 2i)(2 - i)}{(2 + i)(2 - i)} = \frac{4 - 7i}{5} = \underline{\underline{\frac{4}{5} - \frac{7}{5}i}}$

(c) Find the complex conjugate of $z_1 - z_2$.

Taking the complex conjugate means reversing the sign of the imaginary part:

$$z_1 - z_2 = (3 - 2i) - (2 + i) = 1 - 3i \quad \Rightarrow \quad \underline{\underline{(z_1 - z_2)^* = 1 + 3i}}$$

2. Simplify

(i) i^6 , (ii) $(1 + i)(1 - i)$, (iii) i^{-5} .

(i) $i^6 = i^4 i^2 = 1 \times (-1) = \underline{\underline{-1}}$

(ii) $(1 + i)(1 - i) = 1 + i - i - i^2 = \underline{\underline{2}}$

(iii) $i^{-5} = i^{-4} i^{-1} = \frac{1}{i} = \underline{\underline{-i}}$

$-i$ is a "better" answer than $\frac{1}{i}$, (because $-i$ fits the standard form $a + ib$).

Engineering Mathematics 1 Problems

Judd E. Hollander



Engineering Mathematics 1 Problems:

Problems in Engineering Mathematics 1: Blair Knox Alldis, 1975 *Advanced Engineering Mathematics* Dennis Zill, Warren S. Wright, 2011 Accompanying CD ROM contains a chapter on engineering statistics and probability by N Bali M Goyal and C Watkins CD ROM label **Engineering Math** Davood Shadmani, 2024-10-17 Engineering Math Problems and Equations Meta Description Learn how to tackle engineering problems with effectively necessary equations This guide offers a step by step approach to transforming complex challenges into solvable equations by covering problem identification decomposition analysis equation development and validation The procedure is defined to enhance your skills in fluid mechanics thermodynamics and more Keywords Engineering Turning problems into equations equations Differential equations Partial differential equations Systems Problems to solve Heat transfer Navier Stokes equation Fluid mechanics Thermodynamics Introduction This guide provides a structured approach to solving engineering problems using equations By following these steps you can effectively tackle complex problems and build accurate mathematical models Step 1 Identify the Problem Clearly define the problem to be solved Understand the context and objectives Step 2 Decompose the Problem Break down complex problems into smaller more manageable components Identify the key variables and relationships Step 3 Analyze Measurable Properties Understand the system s characteristics such as Control volume Surrounding space Time Conditions Identify relevant measurable properties Step 4 Quantify Energy Interactions Analyze how energy interacts with the system s measurable properties Consider concepts like work heat and potential energy Step 5 Develop the Equation Create a mathematical model that accurately represents the problem Use appropriate equations such as Differential equations Partial differential equations Systems of equations Consider the Navier Stokes and heat transfer equations for fluid mechanical problems Step 6 Validate the Equation Verify the equation s accuracy by comparing its predictions to real world data Use experimental or numerical methods to validate the model Conclusions By following these steps you can develop the skills and confidence needed to identify engineering problems in terms of equations This guide provides a practical framework for both students and professionals **Problems and Solutions in Higher Engg. Math-II** Dr. T.C. Gupta, 2007

Bulletin of the School of Education, Indiana University, 1927 Vol 1 7 9 10 include Proceedings of the High School Principals Conference 1923 1929 v 1 7 9 18 include Proceedings of the Conference on Educational Measurements 1924 1930 1932 1942 *United States Air Force Academy* United States Air Force Academy, 1972 *Catalogue of the Sheffield Scientific School of Yale University for the College Year ...* Yale University. Sheffield Scientific School, 1914 **Engineering Mathematics-1** K. Selvamramanujam, 2018-10-10 This is very useful to all engineering national and international students because lot of new methods are introducing this book so students are very easily understanding any critical problems This book is very excellent [Some Phases of the Junior College Movement](#) Isaac Owen Foster, Harold Florian Clark, Willard Walter Patty, Leo M. Chamberlain, 1927 **Catalogue** Yale University, 1915 **University Catalogue** Yale University, 1915

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