

HAWASSA UNIVERSITY
Collage of Natural and Computational Science
Department of Mathematics

Work sheet -I
Basic Mathematics for Natural Sciences (2014EC)

1. Show that the following propositions are equivalent
 - a) $(P \implies Q) \text{ and } \neg P \vee Q$
 - b) $P \text{ and } P \wedge (Q \vee \neg Q)$
2. For statements p, q , and r , show that the following compound statements are tautology.
 - a) $(p \wedge (p \implies q)) \implies q$.
 - b) $((p \implies q) \wedge (q \implies r)) \implies (p \implies r)$.
3. Let p and q be statements. Which of the following implies that $p \vee q$ is false?
 - a. $\neg p \vee \neg q$ is false.
 - b. $\neg p \vee q$ is true.
 - c. $p \implies q$ is true.
 - d. $p \wedge \neg q$ is true.
4. Suppose that the statements P, Q, R , and S are assigned the truth values T, F, F , and T , respectively. Find the truth value of each of the following statements
 - (a) $R \implies (S \wedge P)$
 - (b) $P \implies (R \implies S)$.
 - (c) $Q \wedge \neg S \implies (P \iff S)$.
 - (d) $(R \wedge S) \implies (P \implies \neg Q \vee S)$
5.
 - a) If the value of $P \implies Q$ is F , then what is the truth value of $(\neg P \wedge Q) \iff (P \vee Q)$?
 - b) If the value of $P \iff Q$ is T , then what is the truth value of $P \iff \neg Q$ and $\neg P \iff Q$?
 - c) If the value of $P \iff Q$ is F , then what is the truth value of $P \iff \neg Q$ and $\neg P \iff Q$?
6. Find the truth value of following compound statements using the given information.
 - a) $(p \implies q) \implies r$, where $r = T$.
 - b) $\neg(p \vee q) \iff (\neg p \wedge \neg q)$, where $p \vee q = T$.
 - c) $p \vee (q \implies r)$, where $r = T$.
 - d) $(p \implies q) \implies (\neg q \implies \neg p)$, where $q = T$.
 - e) $(p \wedge q) \implies (p \vee s)$, where $p = T$.
7. Let $P(x, y): \frac{x}{y} < 1$, where the domain of x is $A = \{2, 3, 5\}$ and the domain of y is $B = \{2, 4, 6\}$. Then determine the truth value of the following quantified statement.
 - a) $(\forall x \in A)(\exists y \in B)P(x, y)$.
 - b) $(\exists x \in A)(\exists y \in B)P(x, y)$.
 - c) $(\exists y \in B)(\forall x \in A)P(x, y)$
8. Determine the truth value of the following statements.
 - a) $(\exists x \in \mathbb{R})(x^2 - x = 0)$.
 - b) $(\forall x \in \mathbb{N})(x + 1 \geq 2)$.
 - c) $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$.
 - d) $(\exists x \in \mathbb{Q})(3x^2 - 27 = 0)$.
 - e) $(\exists y \in \mathbb{R})(\exists x \in \mathbb{R})(x^2 + y^2 = 9)$.
 - f) $(\exists y \in \mathbb{R})(\forall x \in \mathbb{R})(x + y + 3 = 8)$
 - g) $(\forall x \in \mathbb{R})(\exists y \in \mathbb{R})(x + y = 5)$
 - h) $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x + y = 5)$
9. Investigate the validity of the following argument forms using truth table method.
 - a) $\neg p \implies \neg q, q \vdash p$.
 - b) $p \implies \neg p, p, r \implies q \vdash \neg r$.
 - c) $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$.
10. Investigate the validity of the following argument forms using formal proof (rule of inference)
 - a) $\neg p \implies \neg q, q \vdash p$.
 - b) $p \implies \neg q, p, r \implies q \vdash \neg r$.
 - c) $\neg r \wedge \neg s, (\neg s \implies p) \implies r \vdash \neg p$.
 - d) $\neg q \implies \neg p, r \implies p, \neg q \vdash r$.
 - e) $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$.

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1. Understanding the eBook Nmacmilla Mathematic Question And Answer 2014
 - The Rise of Digital Reading Nmacmilla Mathematic Question And Answer 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Nmacmilla Mathematic Question And Answer 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nmacmilla Mathematic Question And Answer 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nmacmilla Mathematic Question And Answer 2014
 - Personalized Recommendations
 - Nmacmilla Mathematic Question And Answer 2014 User Reviews and Ratings
 - Nmacmilla Mathematic Question And Answer 2014 and Bestseller Lists

5. Accessing Nmacmilla Mathematic Question And Answer 2014 Free and Paid eBooks
 - Nmacmilla Mathematic Question And Answer 2014 Public Domain eBooks
 - Nmacmilla Mathematic Question And Answer 2014 eBook Subscription Services
 - Nmacmilla Mathematic Question And Answer 2014 Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Nmacmilla Mathematic Question And Answer 2014 Compatibility with Devices
 - Nmacmilla Mathematic Question And Answer 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nmacmilla Mathematic Question And Answer 2014
 - Highlighting and Note-Taking Nmacmilla Mathematic Question And Answer 2014
 - Interactive Elements Nmacmilla Mathematic Question And Answer 2014
8. Staying Engaged with Nmacmilla Mathematic Question And Answer 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nmacmilla Mathematic Question And Answer 2014
9. Balancing eBooks and Physical Books Nmacmilla Mathematic Question And Answer 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nmacmilla Mathematic Question And Answer 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nmacmilla Mathematic Question And Answer 2014
 - Setting Reading Goals Nmacmilla Mathematic Question And Answer 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nmacmilla Mathematic Question And Answer 2014
 - Fact-Checking eBook Content of Nmacmilla Mathematic Question And Answer 2014
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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