

HAWASSA UNIVERSITY
Collage of Natural and Computational Science
Department of Mathematics

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

- Show that the following propositions are equivalent
 - $(P \implies Q) \text{ and } \neg P \vee Q$
 - $P \text{ and } P \wedge (Q \vee \neg Q)$
- For statements p, q , and r , show that the following compound statements are tautology.
 - $(p \wedge (p \implies q)) \implies q$.
 - $((p \implies q) \wedge (q \implies r)) \implies (p \implies r)$.
- Let p and q be statements. Which of the following implies that $p \vee q$ is false?
 - $\neg p \vee \neg q$ is false.
 - $\neg p \vee q$ is true.
 - $p \implies q$ is true.
 - $p \wedge \neg q$ is true.
- 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
 - $R \implies (S \wedge P)$
 - $P \implies (R \implies S)$.
 - $Q \wedge \neg S \implies (P \iff S)$.
 - $(R \wedge S) \implies (P \implies \neg Q \vee S)$
- If the value of $P \implies Q$ is F , then what is the truth value of $(\neg P \wedge Q) \iff (P \vee Q)$?
 - If the value of $P \iff Q$ is T , then what is the truth value of $P \iff \neg Q$ and $\neg P \iff Q$?
 - If the value of $P \iff Q$ is F , then what is the truth value of $P \iff \neg Q$ and $\neg P \iff Q$?
- Find the truth value of following compound statements using the given information.
 - $(p \implies q) \implies r$, where $r = T$.
 - $\neg(p \vee q) \iff (\neg p \wedge \neg q)$, where $p \vee q = T$.
 - $(p \wedge q) \implies (p \vee s)$, where $p = T$.
 - $p \vee (q \implies r)$, where $r = T$.
 - $(p \implies q) \implies (\neg q \implies \neg p)$, where $q = T$.
- 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.
 - $(\forall x \in A)(\exists y \in B)P(x, y)$.
 - $(\exists x \in A)(\exists y \in B)P(x, y)$.
 - $(\exists y \in B)(\forall x \in A)P(x, y)$
- Determine the truth value of the following statements.
 - $(\exists x \in \mathbb{R})(x^2 - x = 0)$.
 - $(\forall x \in \mathbb{N})(x + 1 \geq 2)$.
 - $(\forall x \in \mathbb{R})(\sqrt{x^2} = x)$.
 - $(\exists x \in \mathbb{Q})(3x^2 - 27 = 0)$.
 - $(\exists y \in \mathbb{R})(\exists x \in \mathbb{R})(x^2 + y^2 = 9)$.
 - $(\exists y \in \mathbb{R})(\forall x \in \mathbb{R})(x + y + 3 = 8)$
 - $(\forall x \in \mathbb{R})(\exists y \in \mathbb{R})(x + y = 5)$
 - $(\exists x \in \mathbb{R})(\forall y \in \mathbb{R})(x + y = 5)$
- Investigate the validity of the following argument forms using truth table method.
 - $\neg p \implies \neg q, q \vdash p$.
 - $p \implies \neg p, p, r \implies q \vdash \neg r$.
 - $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$.
- Investigate the validity of the following argument forms using formal proof (rule of inference)
 - $\neg p \implies \neg q, q \vdash p$.
 - $p \implies \neg q, p, r \implies q \vdash \neg r$.
 - $\neg r \wedge \neg s, (\neg s \implies p) \implies r \vdash \neg p$.
 - $\neg q \implies \neg p, r \implies p, \neg q \vdash r$.
 - $p \implies q, \neg r \implies \neg q \vdash \neg r \implies \neg p$.

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