

Grade 12 Mathematics

Quiz on Important Mathematical Terminology

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Victim:

*Mr. Solutions**You're amazing Mr. N.!!*

KU

20/20

1. Match each term in the left column with the **best** definition in the right column. (20 KU)

- | | |
|----------------------------------|---|
| <u>K</u> Proof | <input checked="" type="checkbox"/> a. "A proof is a proof. What kind of a proof? It's a proof. A proof is a proof. And when you have a good proof, it's because it's proven." (J. Chrétien) |
| <u>aa</u> Counterexample | <input checked="" type="checkbox"/> b. An example of kitchen counter installation methods given at Home Depot® stores |
| <u>l</u> Definition | <input checked="" type="checkbox"/> c. A Canadian game show that was popular in the 1970s |
| <u>Z</u> Converse | <input checked="" type="checkbox"/> d. A famous brand of basketball shoes |
| <u>V</u> Biconditional Statement | <input checked="" type="checkbox"/> e. Coming out of the closet and making a statement about "swinging both ways" |
| <u>S</u> Proposition | <input checked="" type="checkbox"/> f. A provocative "offer" that one person (e.g. <u>Ryan</u>) might make to another person (e.g. <u>Ryan himself</u>) <i>0.5 bonus for inserting a name that makes me laugh</i> |
| <u>m</u> Axiom | <input checked="" type="checkbox"/> g. A hatchet invented by the Roman civilization used primarily in decapitations |
| <u>w</u> Lemma | <input checked="" type="checkbox"/> h. A mammal found chiefly in Peru |
| <u>cc</u> Premise | <input checked="" type="checkbox"/> i. Babies born prematurely |
| <u>p</u> Conclusion | <input checked="" type="checkbox"/> j. A form of reasoning that uses lines of evidence to derive general statements that are <i>likely</i> to be true but could still turn out to be false |
| <u>bb</u> Undefined Term | <input checked="" type="checkbox"/> k. The evidence or argument that compels the mind to accept an assertion as true |
| <u>t</u> Conditional Statement | <input checked="" type="checkbox"/> l. The formulation of the meaning of a term using established terminology |
| <u>q</u> Theorem | <input checked="" type="checkbox"/> m. A statement that is accepted without proof |
| <u>j</u> Inductive Reasoning | <input checked="" type="checkbox"/> n. A proposition that follows immediately from an already established proposition (it can be deduced from an established proposition with little or no proof) |
| <u>n</u> Corollary | <input checked="" type="checkbox"/> o. A precise, finite set of rules specifying how to solve some problem |
| <u>x</u> Conjecture | <input checked="" type="checkbox"/> p. A judgment or decision reached after deliberation |
| <u>u</u> Inference | <input checked="" type="checkbox"/> q. A proposition of major mathematical significance |
| <u>y</u> "If and Only If" | <input checked="" type="checkbox"/> r. A statement in which the truth of the conclusion implies the truth of the premise |
| <u>o</u> Algorithm | <input checked="" type="checkbox"/> s. Any mathematical statement that can be proved using established principles |
| <u>ddl</u> Deductive Reasoning | <input checked="" type="checkbox"/> t. A statement in which the truth of the premise implies the truth of the conclusion |
| | <input checked="" type="checkbox"/> u. The act or process of deriving logical conclusions from premises known or assumed to be true |
| | <input checked="" type="checkbox"/> v. A statement in which the truth of the premise implies the truth of the conclusion and the truth of the conclusion implies the truth of the premise |
| | <input checked="" type="checkbox"/> w. A proposition whose main importance is in the proof of other propositions |
| | <input checked="" type="checkbox"/> x. A hypothesis that has arisen through speculation or through the investigation of examples. As such, it rests on uncertain or tentative grounds. |
| | <input checked="" type="checkbox"/> y. Used to express biconditional statements |
| | <input checked="" type="checkbox"/> z. A statement obtained by interchanging the premise and conclusion |
| | <input checked="" type="checkbox"/> aa. An example that is used to demonstrate the invalidity of a statement |
| | <input checked="" type="checkbox"/> ab. A term whose meaning cannot be expressed in terms of established terminology |
| | <input checked="" type="checkbox"/> ac. A statement that is known or assumed to be true and from which a conclusion can be drawn |
| | <input checked="" type="checkbox"/> ad. A form of reasoning that establishes the truth of a conclusion by using logical inferences that are based on established principles |

When will I ever use
this stuff at a doughnut
shop or an exotic
dancers club?

