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nature of proof in logic which of course carries over into all areas of mathematics and its applications example 1 give a direct proof of the theorem if n is an odd integer then is odd solution n 2k 1 is odd example 2 give a direct proof that if m and n are both perfect squares then nm is also a perfect square an integer a is a perfect square if there is an integer b such that a to show that a statement q q is true follow these steps either find a result that states p q p q or prove that p q p q is true show or verify that p p is true conclude that q q must be true the logic is valid because if p q p q is true and p p is true then q q must be true symbolically we are saying that the logical formula methods of proof solutions for each of the following statements determine which of the following methods of proof is most appropriate and then prove the statement proof methods direct proof contrapositive contradiction proof by cases statement 1 let n 2 z if n2 6n 5 is even then n is odd 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