

Hadiyatunnaimah, 2016, **Boundedness of Hardy and Hilbert Operators on Generalized Morrey Space**. This undergraduate thesis is supervised by Dr. Mohammad Imam Utoyo, M.Si. and Dr. Eridani, M.Si. Mathematics Department, Science and Technology Faculty, Airlangga University, Surabaya.

ABSTRACT

Hardy and Hilbert operators has form integral cannot always be solved analytically, so its solution can be solved numerically. Numerical solution can be made if those two operators is bounded. Therefore, it's important to determine the sufficient conditions for boundedness of those operators. The previous researchers have found sufficient conditions boundedness of Hardy and Hilbert operators on Lebesgue space and Lebesgue weighted space.

In this research we have determined sufficient conditions boundedness of Hardy and Hilbert operators on generalized Morrey space and generalized weighted Morrey space respectively is generalization of Lebesgue space.

Keywords : Hardy Operator, Hilbert Operator, Generalized Morrey Space.

