

**ON SOME CHROMATIC PROPERTIES OF JAHANGIR
GRAPH**

AKHLAQ AHMAD BHATTI
SCHOOL OF MATHEMATICAL SCIENCES
68-B, NEW MUSLIM TOWN, LAHORE, PAKISTAN
E-MAIL: AKHLAQ4782003@YAHOO.COM

ABSTRACT. 1.1 In this note we compute the chromatic polynomial of the Jahangir graph J_{2p} and we prove that it is chromatically unique for $p = 3$.

AMS Subject classification: 05C15

Keywords: Jahangir Graph, Chromatic polynomial, Chromatic uniqueness

REFERENCES

1. F.M.Dong, K.M.Koh, K.L.Teo, "*Chromatic polynomial and chromaticity of graphs*", World Scientific, Singapore 2005.
2. E.J.Farrell(1980b), "On the chromatic coefficients", *Discrete Math.* 29, no. 3, 257-264.
3. K.M.Koh, K.L.Teo, "The search for chromatically unique graphs", *Graphs and Combinatorics* 6(1990), 259-285.
4. N.Z.Li (1997), "The list of chromatically unique graphs of order seven and eight", *Discrete Math.* 172, 193-221.
5. Y.H.Peng (1992a), "On the chromatic coefficients of a bipartite graph", *Ars Combin.* 34, 107-117.
6. A.A.Zykov (1949), "On some properties of linear complexes " (*Russian*), *Mat.Sbornik* N.S. 24(6b), 163-183.