

INTERESTING EXAMPLES OF BIPARTITE DIVISOR GRAPHS OF FINITE GROUPS

R. HAFEZIEH

ABSTRACT. Let G be a non-abelian finite group, $cs(G) = \{|x^G| : x \in G\}$ and let $\rho(G)$ be the set of all primes dividing the elements in $cs(G)$. The bipartite divisor graph of G is a bipartite graph with $\rho(G) \cup cs(G) \setminus \{1\}$ as its vertex set, such that a prime from $\rho(G)$ like p is joined to an element of $cs(G) \setminus \{1\}$ like x iff p divides x .

In this talk we will discuss some properties of this graph and we will give some interesting examples.

R. HAFEZIEH, DEPARTMENT OF MATHEMATICS
GEBZE INSTITUTE OF TECHNOLOGY, GEBZE, TURKEY
E-mail address: roghayeh@gyte.edu.tr