INTERESTING EXAMPLES OF BIPARTITE DIVISOR GRAPHS
OF FINITE GROUPS

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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 $x$ if $p$ divides $x$.

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

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