

A couple of questions

Background. (1) Given finite, simple graph Γ , form graph group $G(\Gamma)$ by presentation:

gens: vertices of Γ

rels: $vw = wv$ if \exists edge $v - w$

(2) Given gp G w/ symm gen. set X have Cayley graph $\Gamma(G, X)$ given by

vertices: elements of G

edges: $g \xrightarrow{x} gx$ $x \in X$
 $g \in G$

So

Q1. Which graph gps have defining graphs given by the 1-skeleton of a cyclic ptp?

Q2. When does the 1-skeleton of a ptp embed into a Cayley graph $\Gamma(G, X)$?