A cycle or a Jahangir Ramsey unsaturated graphs*

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Abstract. A graph is Ramsey unsaturated if there exists a proper supergraph of the same order with the same Ramsey number, and Ramsey saturated otherwise. We present some result concerning both Ramsey saturated and unsaturated graph. In particular, we show that a cycle C_n and a Jahangir J_m Ramsey unsaturated or saturated graphs of $R(C_n, W_m)$ and $R(P_n, J_m)$, respectively. We also suggest an open problems.

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