

Figure 1: **Ridge regression** on different graphs: (1a) Line graph; (1b) Erdős-Rényi Graph with edge activation probability $p = 0.1$; (1c) Erdős-Rényi Graph with edge activation probability $p = 0.5$

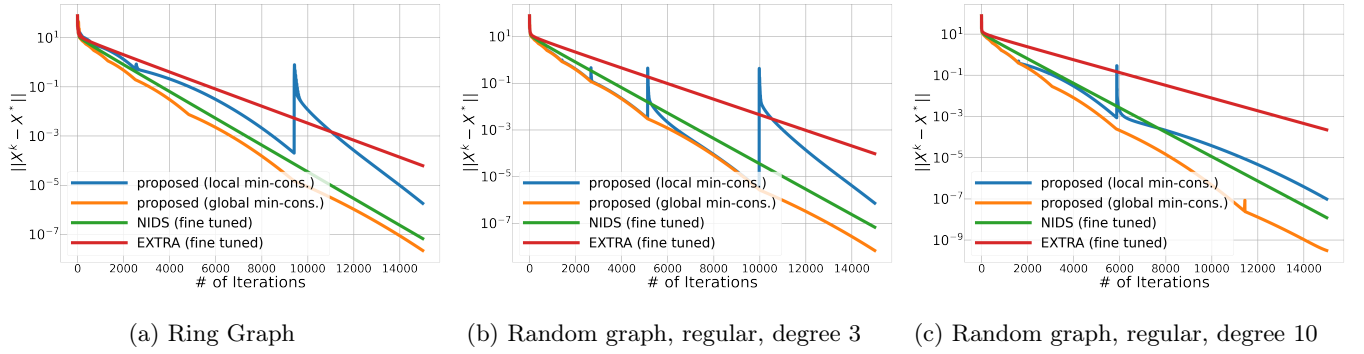


Figure 2: **Ridge regression** on different **regular** graphs: (2a) Ring graph; (2b) Random Regular Graph, with degree 3; (2c) Random Regular Graph with degree 10.

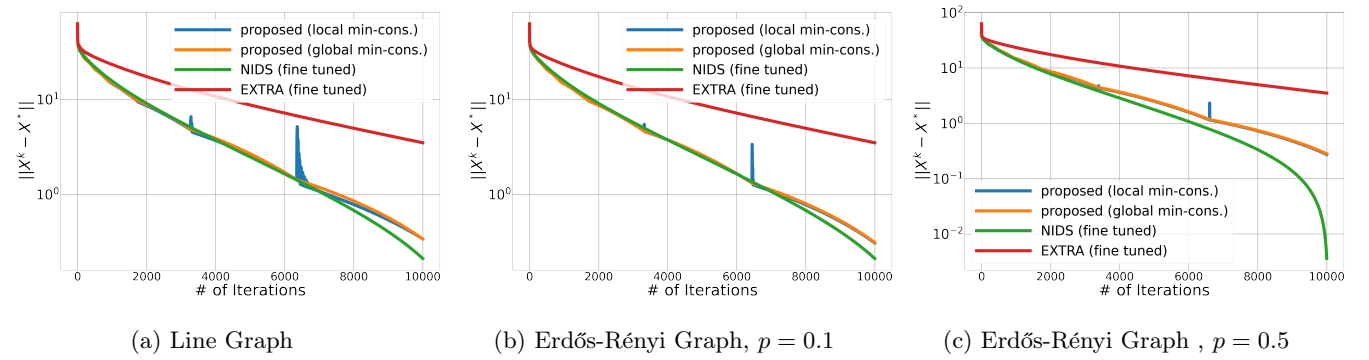


Figure 3: **Logistic regression** for a3a dataset on different graphs: (3a) Line graph; (3b) Erdős-Rényi Graph with edge activation probability $p = 0.1$; (3c) Erdős-Rényi Graph with edge activation probability $p = 0.5$