

*****COMPLETE GRAPH-4*****

Edges of COMPLETE GRAPH-4:

(1, 2) (2, 3) (2, 4) (4, 1) (1, 3) (3, 4)

VERTICES = 4 EDGES = 6

Chromatic polynomial of COMPLETE GRAPH-4:

$$\begin{aligned} P(G, x) = & \quad 1 \, x(x-1)^3 \\ & -3 \, x(x-1)^2 \\ & \quad 2 \, x(x-1) \end{aligned}$$