

*****COMPLETE GRAPH-6*****

Edges of COMPLETE GRAPH-6:

(2, 6) (1, 2) (1, 4) (1, 5) (4, 6) (2, 3) (2, 4)
(2, 5) (3, 4) (4, 5) (3, 5) (1, 6) (1, 3) (5, 6)
(3, 6)

VERTICES = 6 EDGES = 15

Chromatic polynomial of COMPLETE GRAPH-6:

$$P(G, x) = \begin{array}{r} 1 x*(x-1)^5 \\ -10 x*(x-1)^4 \\ 35 x*(x-1)^3 \\ -50 x*(x-1)^2 \\ 24 x*(x-1)^1 \end{array}$$