**********COMPLETE GRAPH-13**********
Edges of COMPLETE GRAPH-13:

(11, 13) (1, 10) (5, 9) (4, 11) (10, 13) (2, 11) (12, 13)
(1, 12) (9, 10) (10, 12) (3, 12) (9, 13) (9, 11) (7, 12)
(1, 13) (4, 12) (3, 6) (2, 13) (6, 8) (3, 11) (5, 12)
(8, 11) (3, 10) (6, 10) (4, 13) (7, 9) (6, 11) (2, 5)
(11, 12) (4, 8) (5, 13) (7, 10) (1, 5) (1, 11) (6, 12)
(6, 9) (7, 8) (2, 3) (9, 12) (1, 9) (5, 8) (8, 12)
(2, 10) (1, 8) (2, 8) (5, 6) (6, 7) (1, 7) (7, 13)
(7, 11) (2, 4) (1, 4) (5, 11) (2, 7) (2, 9) (4, 10)
(3, 5) (3, 7) (1, 2) (6, 13) (10, 11) (3, 9) (2, 6)
(5, 10) (3, 13) (8, 13) (4, 5) (3, 4) (1, 3) (4, 7)
(4, 9) (8, 9) (3, 8) (1, 6) (8, 10) (4, 6) (2, 12)
(5, 7)

VERTICES =   13 EDGES =   78

Chromatic polynomial of COMPLETE GRAPH-13:

$$P(G, x) = 1\,x(x-1)^{12} - 66\,x(x-1)^{11} + 1925\,x(x-1)^{10} - 32670\,x(x-1)^{9} + 357423\,x(x-1)^{8} - 2637558\,x(x-1)^{7} + 13339535\,x(x-1)^{6} - 45995730\,x(x-1)^{5} + 105258076\,x(x-1)^{4} - 150917976\,x(x-1)^{3} + 120543840\,x(x-1)^{2} - 39916800\,x(x-1)^{1}$$