

*****COMPLETE GRAPH-8*****

Edges of COMPLETE GRAPH-8:

(5, 7) (2, 8) (4, 7) (4, 8) (2, 5) (7, 8) (6, 8)
 (2, 7) (2, 6) (3, 7) (6, 7) (4, 6) (3, 8) (3, 5)
 (1, 7) (1, 3) (1, 8) (5, 6) (2, 4) (3, 4) (1, 4)
 (1, 5) (2, 3) (4, 5) (5, 8) (3, 6) (1, 6) (1, 2)

VERTICES = 8 EDGES = 28

Chromatic polynomial of COMPLETE GRAPH-8:

$$\begin{aligned}
 P(G, x) = & \quad 1 x*(x-1)^7 \\
 & -21 x*(x-1)^6 \\
 & 175 x*(x-1)^5 \\
 & -735 x*(x-1)^4 \\
 & 1624 x*(x-1)^3 \\
 & -1764 x*(x-1)^2 \\
 & 720 x*(x-1)^1
 \end{aligned}$$