Edges of COMPLETE GRAPH-7:

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

VERTICES = 7 EDGES = 21

Chromatic polynomial of COMPLETE GRAPH-7:

$$P(G, x) = 1 x*(x-1)^{6} 6$$

$$-15 x*(x-1)^{5} 5$$

$$85 x*(x-1)^{4} 4$$

$$-225 x*(x-1)^{3} 3$$

$$274 x*(x-1)^{2} 2$$

$$-120 x*(x-1)^{1} 1$$