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LOVÁSZ 1966

$$* \forall (x, y) \in E(G): \chi(G - x - y) = \chi(G) - 2$$

??
↓

$$G = K_{\chi(G)}$$

HADWIGER 1942

$$** \forall H \subseteq G : \chi(H) < \chi(G)$$

??
↓

$$G = K_{\chi(G)}$$

$$* \text{ AND } ** \xRightarrow{??} G = K_{\chi(G)}$$

$$* \xRightarrow{??} G \geq K_{\chi(G)}$$
