**(Proper) edge-coloring** of a graph = way of coloring the edges so that no two edges sharing a vertex have the <u>same</u> color.

k-edge-coloring = an edge-coloring that uses exactly k colors. (If a k-edge-coloring of G exists, say that G is k-edge-colorable.)

Edge-chromatic number or chromatic index  $\chi'(G)$  = smallest k so that G is k-edge colorable.

What is X'(G)?

