The burning number conjecture

What is a graph?
• Vertices
• Edges

The burning number
Each graph $G$ has a burning number, denoted $b(G)$.

The burning number of a graph is the minimum number of steps in which we can burn it.

The burning process
$t = 0$

$t = 1$

$t = 2$

$t = 3$

$t = 4$

This burning process took 4 steps

The conjecture
For any graph $G$, we believe that $b(G) \leq \lceil \sqrt{n} \rceil$.

Trees
A tree is a cycleless graph. For example: