Let $K_{r,s,t}$ denote the graph with $r$ red vertices, $s$ blue vertices, and $t$ green vertices, and where there is an edge connecting two vertices if and only if they have different colors.

1. Draw a picture of $K_{1,2,3}$. You do not need to indicate the colors in any way.

![Graph](image)

2. Is $K_{1,2,3}$ Eulerian?

   Eulerian $\iff$ all degrees are even.

   No, as $\deg A = 5$

3. For which values of $r$, $s$, and $t$ is $K_{r,s,t}$ Eulerian?

   Eulerian $\iff$ all degrees are even.

   Possible degrees in $K_{r,s,t}$ are $r+s$, $r+t$, $s+t$.

   These are all even when either $r$, $s$, $t$ are all even or all odd.