Quiz 3

- which ones among the compact connected 2 -manifolds $\Sigma_{g}, g \geqslant 0$ and $X_{k}, k \geqslant 1$ have abelian fundamental group?
- which among the digits $0,1,2,3,4,5,6,7,8,9$ (vieuod ac aredubspecees of $\mathbb{R}^{2}$ ) have fund. group $\mathbb{Z}+\mathbb{Z}$ ?
- which have fund greer $\mathbb{Z}$ ?
- Wires have trivial fund greene?
- State the Seffert-van Kampen theorem (any formulation)

