2013 Day 1 Q3 (MHD)

a. Surface defined by $\hat{n} \cdot \vec{B} = 0 \quad \forall \hat{n} \in S$.
Surfaces which $\vec{B}$ vectors lie tangent to.

b. Small externally applied perturbation to B field, ~~intended~~
Resonant - same helicity as background B field ($H_c \int A \cdot B$ ~~$A \cdot B$~~)

c. On a rational surface, the fields are special in that the field lines are closed. For $q \notin \mathbb{Q}$, the field lines are ergodic and space-filling.
So a RMP can very easily perturb the surface from a rational to irrational one, leading to very different transport properties. (expand).