



(1) Assessment & self-assessment Goal: assess competence w/learning objectives regulied (. weekly HW + revisions regulied (. tabe-home midtern + revision · Alternative / supplementa (: - paper (presentation (potentially collaborative) - presenting HW solins · final oral exam & Weighting of objectives? (2) Joint expectations Make space & to contribute Rospect 3 différences Be present & ready collaborate listen Encourage mathematical risk taking valnerability Composionate communication checking in w/ partners Celebrate mistakes





Problem session Tuesdays 13:00-14:00

Kylis drop in hours Thursdays 15:00-16:00

QXA Internet: Don't hunt for solins; no Internet on the midtern

Final: Converse with me about topology problems Differential geometry: Romannian metrics start in 546

Topological Spaces X a set, 2 = }A |A = X } its power set A topology on X is T = 2× r.t. (i) $X, \emptyset \in T$ (ii) T is closed under pairwise (and hence finite) intersections: $U, V \in T \implies U \cap V \in T$ (iii) T is closed under arbitrary unions : $\{U_{\alpha} \mid \alpha \in S \} \in T \implies \bigcup U_{\alpha} \in T.$ · For UET, X. U called · (X, T) is a topological space closed · U & T called open subsets of X · x e X a point of X · pellet nighborhood of p







See Prop 2.8 for important properties of (), ()°, Ext, 2



models "54 modal logic."











• A subset $A \subseteq X$ is dense in X when $\overline{A} = X$ E.g. $\emptyset \subseteq \mathbb{R}$.



Probing spaces with sequences and maps

