17. (2/15) Use the Classification Theorem to deduce the following facts about the Euler characteristic of a (compact, connected) 2-manifold $F$.

1. $\chi(F) \leq 2$.
2. $\chi(F) = 2$ if and only if $F = S^2$.
3. $\chi(F) = 1$ if and only if $F$ is a disk or a projective plane.
4. $\chi(F) = 0$ if and only if $F$ is an annulus, Möbius band, torus, or Klein bottle.
5. Find all $F$ with $\chi(F) = -1$.
6. Find all $F$ with $\chi(F) = -2$.

18. (2/15) For each of the surfaces shown on the next page, use orientability and Euler characteristic to determine the homeomorphism type of the surface. The answer may depend on whether $m$ is even or odd.