## Work with your group up at a board to create 4 sketches:

- 3c) In a hyperbolic sketch, produce a hyperbolic line *I* as well as two hyperbolic lines m<sub>1</sub> and m<sub>2</sub> that both go through the same point off of *I* but never intersect *I*.
- The exterior angle theorem says that the exterior angle of a triangle equals the sum of the remote interior angles.
  - 4a) Create a Euclidean geometry sketch and annotate to showcase that the exterior angle theorem is true there.
  - 4c) Create a hyperbolic sketch and annotate to show why the exterior angle theorem is false there.
  - 4d) Create a spherical triangle sketch and annotate to show why the exterior angle theorem is false there.

