Honors Geometry Surfaces Name:

**Complete the table below, make a sketch for each and answer True or False.**

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| --- | --- | --- | --- | --- |
| **Surface** | *Two points determine a single line.* | *Two lines intersect in a single point.* | *There exists exactly one parallel to a line through a point not on the line.* | *The sum of the angles in a triangle is 180°* |
| Euclidean Plane |  |  |  |  |
| Sphere  *Consider both polar and non-polar points* |  |  |  |  |
| Hyperbolic Plane |  |  |  |  |
| Cylinder |  |  |  |  |
| Cone |  |  |  |  |