

Pensieve Header: The Klein bottle based on http://en.wikipedia.org/wiki/File:Klein_bottle.svg.

```
In[21]:= p[u_, v_] := Which[
  v < Pi, (* the lower rim *)
  {(2.5 - 1.5 * Cos[v]) * Cos[u], (2.5 - 1.5 * Cos[v]) * Sin[u], -2.5 * Sin[v]},
  v < 2 * Pi, (* the "body" *)
  {(2.5 - 1.5 * Cos[v]) * Cos[u], (2.5 - 1.5 * Cos[v]) * Sin[u], 3 * v - 3 * Pi},
  v < 3 * Pi, (* the upper bend *)
  {-2 + (2 + Cos[u]) * Cos[v], Sin[u], (2 + Cos[u]) * Sin[v] + 3 * Pi},
  True, (* the back feed from the upper ned to the "inside" *)
  {-2 + 2 * Cos[v] - Cos[u], Sin[u], -3 * v + 12 * Pi}
];
ParametricPlot3D[
  p[u, v],
  {u, 0, 2 Pi}, {v, 0, 4 Pi}
]
```

Out[22]=

