Thoughts on Curved Fault Benchmark
Goal: Assess accuracy of modeling rupture on smooth, nonplanar geometry

- Use TPV205 (w/o asperities) as starting point
  - Vertical strike-slip fault
  - 2-D and 3-D versions
  - Uniform regional stress field
- Smooth nucleation (slip + time weakening, small forced nucleation)
- Focus on discretization size for given radius of curvature
  - **Option 1**: Circular fault with multiple versions at same discretization size
  - **Option 2**: Circular fault with multiple versions at different discretization sizes
  - **Option 3**: Fault w/variable curvature and encourage multiple discretization sizes
Thoughts on Curved Fault Benchmark
Assess accuracy of various discretizations of smooth, nonplanar geometry

High order basis functions, low order geometry (affine geometry)

High order basis functions, high order geometry (isoparametric)

Low order basis functions, low order geometry (isoparametric)