TEST12: 3D Case: Calculates v-field and displacement for a pressure loaded penny shaped crack.

TEST13: 2D Case: Calculates v-field and displacement for a pressure loaded line crack.

TEST14: 3D Case: Hydraulic fracturing: Simulates pressure driven propagation of a line crack, mimicking the hydraulic fracturing process

TEST15: 2D Case: Hydraulic fracturing: Simulates pressure driven propagation of a line crack, mimicking the hydraulic fracturing process.

TEST16: 3D Case: Hydraulic fracturing: Simulates pressure driven propagation of a penny-shaped crack, mimicking the hydraulic fracturing process.

TEST17: 2D Case: Simulates pressure driven propagation of arbitrary number of line cracks using VF.

TEST18: 2D Case: Simulates pressure driven propagation of two perpendicular line cracks.

TEST19: 2D Case: Simulates cracking of a material by tension force.

TEST19: 2D Case: Simulates cracking of a material by shear force.

TEST20: 2D Case: Simulates crack initiation and propagation by pulling pushing and tearing.

TEST21: 2D Case: Simulates crack propagation by tension, shear and a combination of both. Tension force is applied by displacement boundary condition normal to the pulled boundary while shear force is implemented by specify displacement component tangential to the pulled surface. Specifying both displacements normal and perpendicular to a surface implements the combination of tension and shear forces.

TEST29: 2D Case (Using VFRectangularCracks): Hydraulic fracturing: Simulates pressure driven propagation of a line crack, mimicking the hydraulic fracturing process.