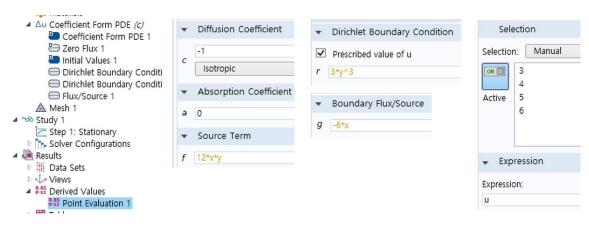
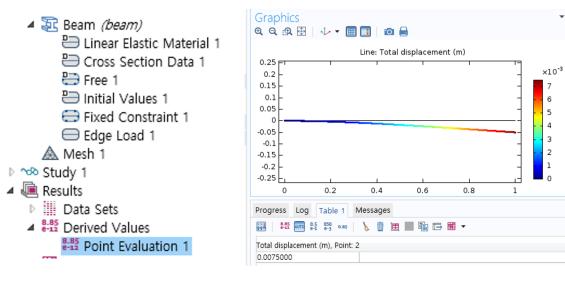
setting(1), geom.(2), poisson eq.(3), dirichlet con.(3), neumann con.(3), sol.(3)			
1) geom.(1), property(1), cross section(2), fixed(1), load(1), sol.(2)			
2) geom.(2), property(1), fixed(1), load(1), table(8), question(2)			
1) geom.(4), discretization(1), property(1), fixed(1), load(2), symmetry(3), plot(3)			
2) tria cal.(5), quad cal.(5), graph(3), question(2)			
3) K of each radius(2)			
1) geom.(2), property(1), fixed(1), pinned(1), load(1), critical load(1)			
2) geom.(2), property(1), fixed(1), pinned(1), load(1), critical load(1)			
3) cal. radius(1), geom.(2), property(1), fixed(1), pinned(1), load(1), critical load(1), question(2)			
초과 2분당 -1점			
문제 별 결과 미 첨부시 -1점			

1.

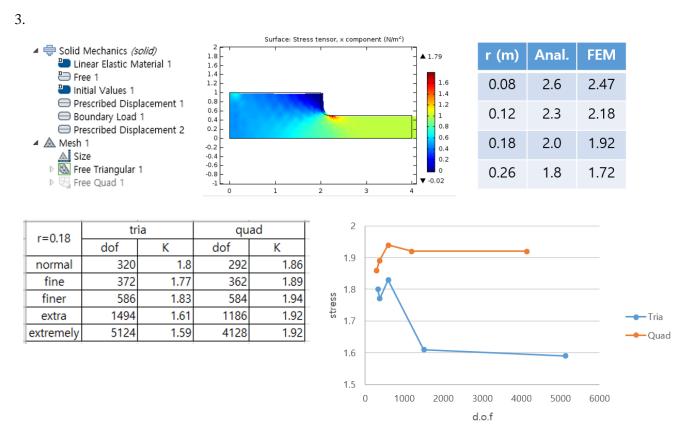


2.1)

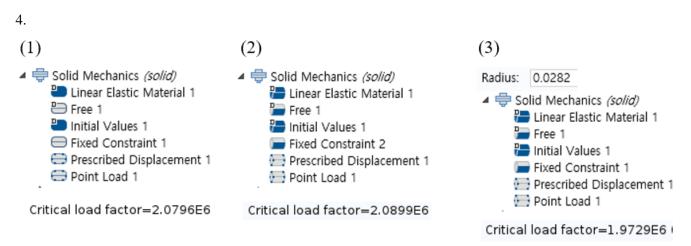


2)				
 Solid Mechanics (solid) Linear Elastic Material 1 Free 1 Initial Values 1 Boundary Load 1 Fixed Constraint 1 Mesh 1 Study 1 Results Mesults Data Sets Story Calues Point Evaluation 1 	h (L/h)	Anal. (mm)	FEM (mm)	Error (%)
	0.05 (20)	-60	-60.06	0.1
	0.1 (10)	-7.5	-7.56	0.8
	0.2 (5)	-0.9375	-0.9671	3.2
	0.5 (2)	-0.06	-0.0715	19.2

The length-to-height ratio should be greater than 10.



Because the stress variation is small with the increase of d.o.f when using the quad elements, it is more proper than using the triangular elements.



Because a critical load of the square column is larger than a load of the round column, the square shape is good for buckling.