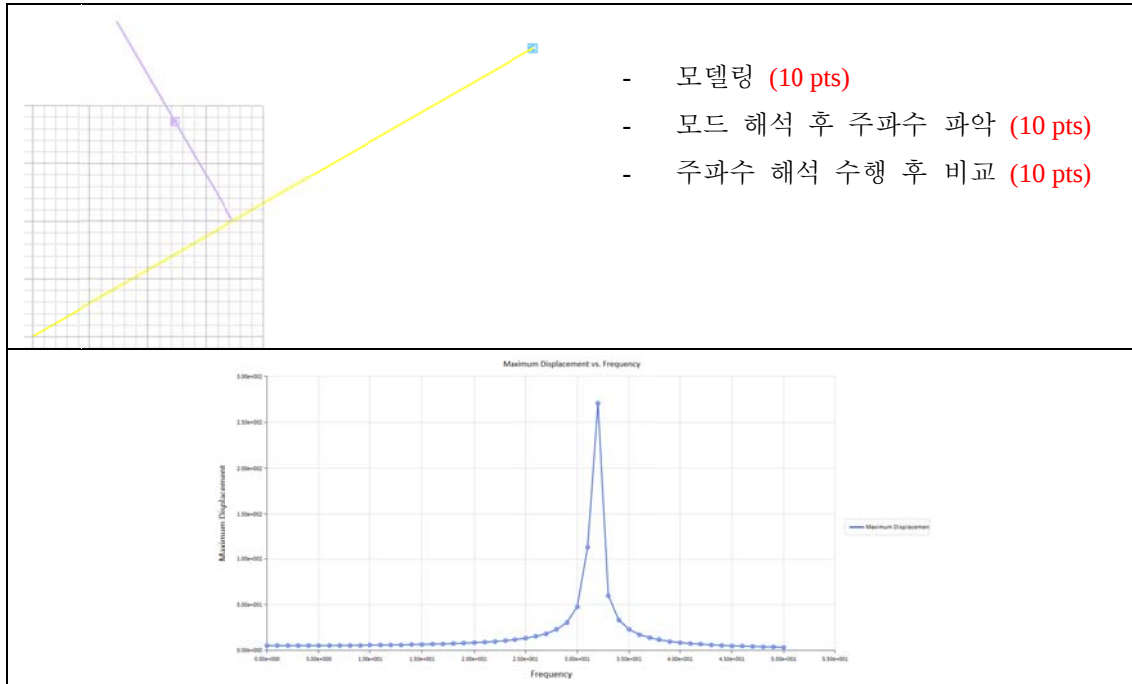
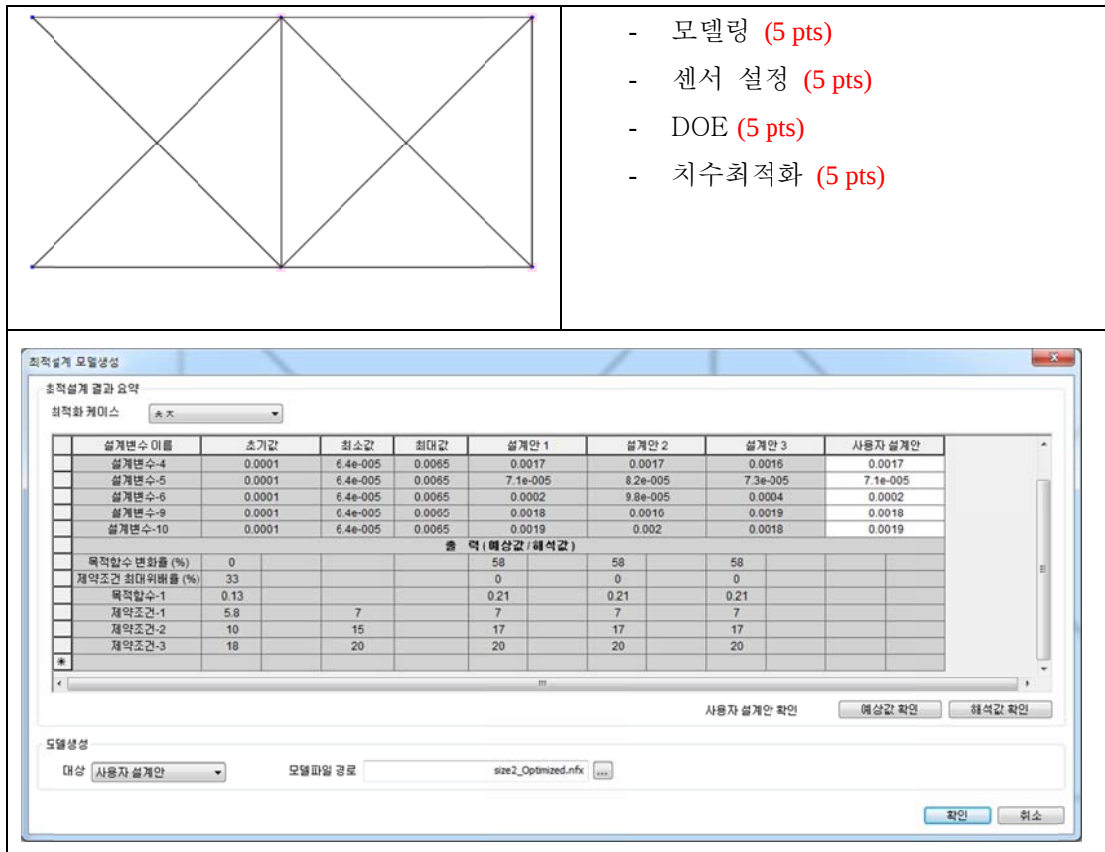


Solution

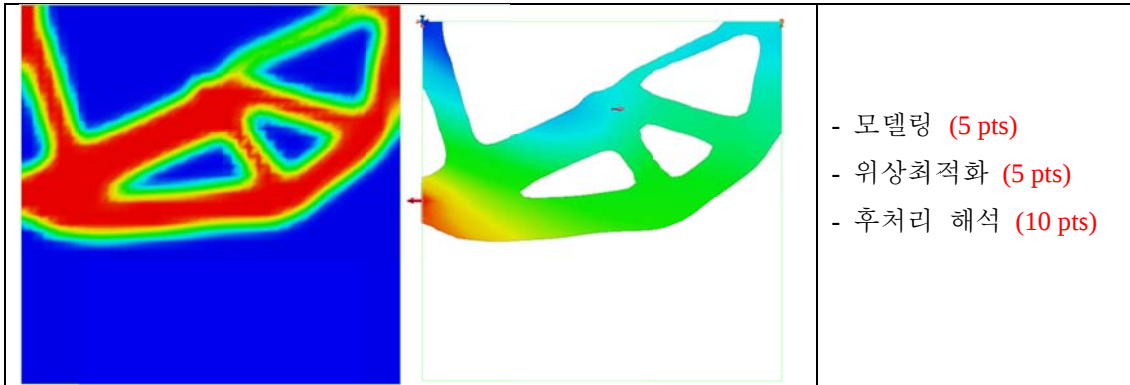
1. (30 pts)



2. (20 pts)



3. (20 pts)



4. (30 pts)

