Quiz FEM1

Problem A) If the length of the member shown in Figure 1 decreased by 25 mm after applying force N:

(1) Determine the engineering and true strain in the longitudinal direction

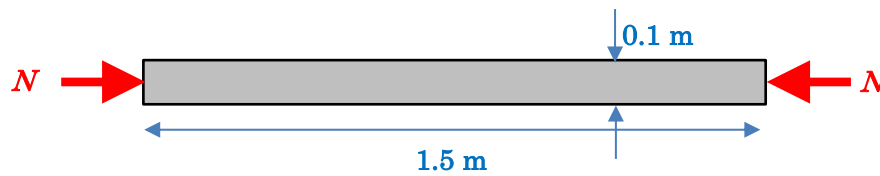(2) Determine the new thickness of the member after loading assuming Poisson's Ratio (v) of 0.3

Figure 1

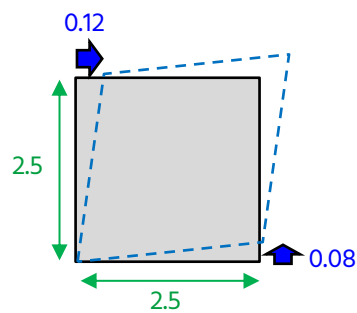Problem B) Determine the shear strain for the condition shown in Figure 2.

Figure 2