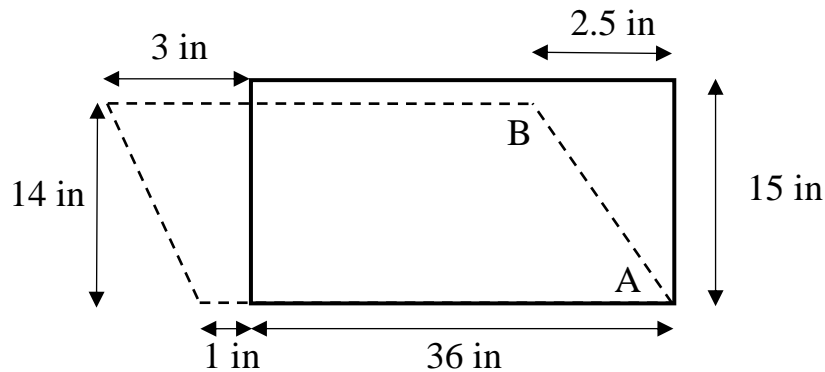


- Describe in words (not equations) normal strain and shear strain. What causes these strains?
- What strains are present in the rubber bridge bearing below and what is causing them?
(Image from [EERI Learning From Earthquakes Clearinghouse](#))



- If the rubber bearing above is idealized as a square block (solid lines) with the following deformations (dashed lines).
 - Determine the average normal strain along line AB.
 - Determine the average shear strain at corner A and B.



- If the member below deforms as shown and the allowable strain in member AB is 0.001 in/in, what is the maximum amount of displacement in member CD?

