

Name: _____ Roll no. _____

Department of Aerospace Engineering, Indian Institute of Technology, Madras.

AS 2010: Basic strength of materials. Quiz 6

1. Find the principal stresses and their directions if the stress at a point is the sum of the two stress states shown:



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2. At a point in a body in plane stress, the shear stress state is as sketched. Also, the principal stresses are 20 MPa and -45 MPa. Find σ_{xx} , and σ_{yy} and mark them in the figure below.

