Assignment 15, due Wednesday Oct. 10th

Assume that the mode I plane strain fracture toughness (K_{IC}) for partially stabilized zirconia is 10 MPa.m $^{1/2}$. Assume a **VERY** wide plate (W>>a) of this material contains an edge crack 100 μ m deep and is subjected to a 300 MPa tensile stress applied normal to that crack. Determine if this plate fail by fracture (crack will propagate through).