T1 T2

 A G C

 b/2 b/2

 Y

 x

The slender uniform bar ABC has a mass of 12 kg and is anchored to the support ceiling by two cables T1 and T2. Given that T2 breaks; find the tension in T1 immediately after the break. Solve using the equations of motion for the x and y directions Take the moments about the Center Of Mass (point G).

Please show the calculation for the acceleration for point G (relative acceleration equations)

Please respond in PDF format