

HW2. The figure shows a right triangle-shaped rigid body, its mass is m [kg], and it is supported by a hinge support on the left side. The sides of the triangle are a [m] and b [m] long. The body is in equilibrium, and the force F is perpendicular to the hypotenuse. Compute angle α [°], the magnitude of force F [N] and its components F_x [N] and F_y [N]! ($g=10$ m/s²)

[40 points]

