9. [9 points] The tank pictured below has height 2 meters, and the top and bottom are equilateral triangles with sides of length 1 meter. It is filled halfway with hot chocolate. The hot chocolate has uniform density $1325 \mathrm{~kg} / \mathrm{m}^{3}$. The acceleration due to gravity is $9.8 \mathrm{~m} / \mathrm{s}^{2}$. Calculate the work needed to pump all the chocolate to the top of the tank. Show all your work. Give an exact answer. Include units.

