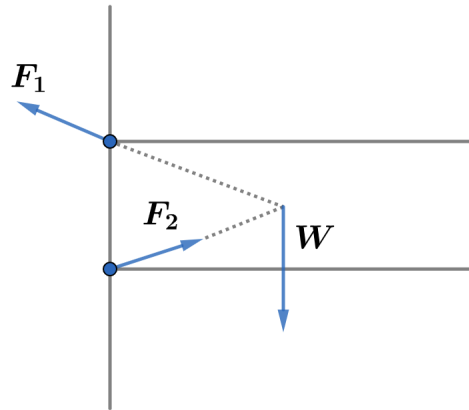


# 2020B F=ma Exam: Problem 12

Kevin S. Huang



Consider an idealization where the platform is attached to the wall only at the top and bottom points of its side. The vertical component of the forces must point up to balance gravity. For the total torque to be zero, the two forces  $F_1, F_2$  and the weight  $W$  vector must intersect through the same point. Thus, there is tension in the top and compression in the bottom so the answer is  C.