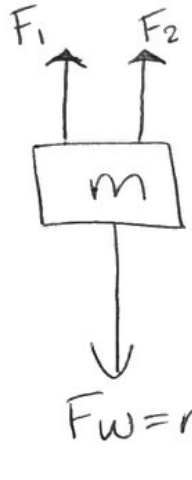
Notes

11/12/19

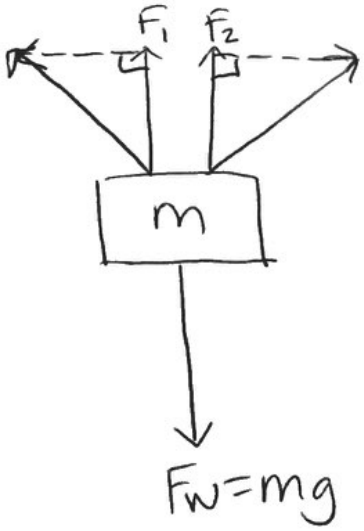
Suspending a mass with strings.



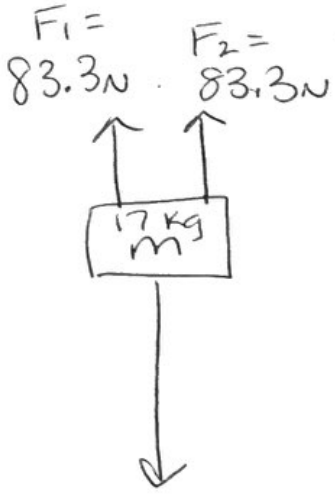
Object is not moving

$F_{Net} = 0_N$

So, $F_1 + F_2 = F_W$



A mass of 17 kg is hanging by 2 vertical forces. What is the magnitude of each force?

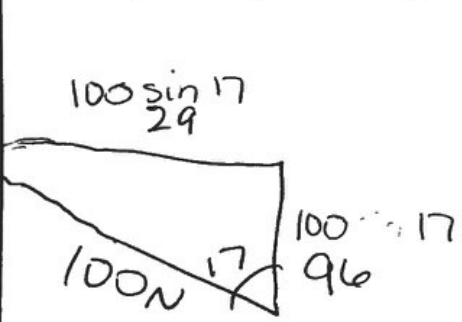


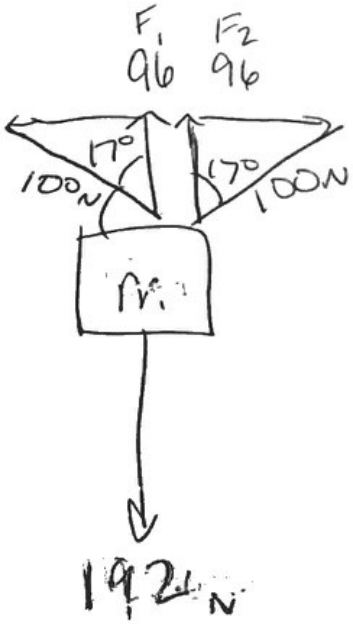
$F_W = mg$

$(17\text{ kg})(9.8)$

166.6 N

What is the mass of an object hanging with 2 strings each with 100N of force at 17° each?





$96 + 96 = 192$

$F_W = mg$

$192 = m(9.8)$

$\frac{192}{9.8}$

$19.6\text{ kg} = m$