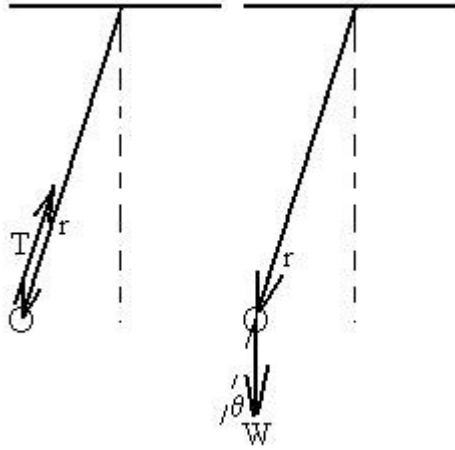


HW 9-3 Soln)

There are two forces acting on the bob: tension and weight.

In general, $\tau = rF\sin\theta_{r,F}$ (RHR)



$$\Sigma \tau = LT\sin 180^\circ + L(mg)\sin\theta = 0 + 1.2 \times 2 \times 10 \times \sin 5^\circ = 2.09 \text{ Nm} - \text{Use RHR to find direction, out of the page}.$$

If you drew your bob on the right, then the direction will be into the page.