

## Mastering Physics Solutions Torques

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### Mastering Physics Solutions Torques

Here, the torque depends on both the magnitude of force and on the distance from the axis of rotation at which it is applied. However because the forces are the same, the torque depends on the axis of rotation. A small force can produce the same torque as a large force, if it is applied farther from the axis of rotation.

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B) Find the torque  $\tau$  about the pivot due to the weight  $w$  of Gilles on the seesaw. Express your answer in terms of  $L_1$  and  $w$ .  $\Rightarrow \tau = -L_1 w$ . C) Determine  $\Sigma\tau$ , the sum of the torques on the seesaw. Consider only the torques exerted by the children. Express your answer in terms of  $W$ ,  $w$ ,  $L$ , and  $L_1$ .  $\Rightarrow \Sigma\tau = 0 = WL - wL_1$

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$\Rightarrow$  The torque due to the cable is given by  $\tau = r F \sin \theta$ , where  $r$  is the distance from the hinge to the force and  $\theta$  is the angle of the force relative to the pole. Since the pole is in equilibrium, the torque due to the cable is equal in magnitude to the net torque due to the sign and the weight of the pole. Thus,

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Using this image: [http://session.masteringphysics.com/problemAsset/1000529/17/11352\\_d.jpg](http://session.masteringphysics.com/problemAsset/1000529/17/11352_d.jpg) What is  $T_F$ , the torque about point P due to the force applied by the ...

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Description: Find the torque due to a force applied at the origin about different axes of rotation. Hints illustrate the use of various approaches to finding torque. A force of magnitude making an angle with the x-axis is applied to a particle located along axis of rotation A, at Cartesian coordinates in the figure.

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What is the net torque on the bar shown in (Figure 1), about the axis indicated by the dot? Suppose that  $F = 12 \text{ N}$ . ... Mastering Physics Net Torque problem 7.27 solved Homero Daniel Rodriguez ...

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The length of the wrench handle is extended when tightening a bolt. That is, the moment of arm is increased. Since torque is the product of force and moment of arm, the torque increases when the moment of arm increases. Thus, torque on the bolt is increased.

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The Attempt at a Solution  $\tau_{\text{net}} = \tau_1 + \tau_2 + \tau_3 + \tau_4$   
 $\tau_1 = 30\text{N} * 0.1 * \sin(90)$   $\tau_2 = 30\text{N} * 0.05 * \sin(-45)$   $\tau_3 = 20\text{N} * 0.05 * \sin(-90)$   $\tau_4 = 20\text{N} * 0.1 * \sin(45)$  \_\_\_\_\_  $\tau_{\text{net}} = \sim 2.35355 \text{ Nm}$  this was my original solution, which came out incorrect, a friend then told me that  $\tau_4$  is zero because the force of 20N is not being applied to a point on the disk ...

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