

### Physics Practice Problems Solutions Torque Rotational Motion

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[Physics Torque Practice Problems With Solutions](#) Author: [engineeringstudymaterial.net-2020-11-15T00:00:00+00:01](#) Subject: [Physics Torque Practice Problems With Solutions](#) Keywords: [physics, torque, practice, problems, with, solutions](#) Created Date: [11/15/2020 5:14:42 PM](#)

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[Torque Problems and Solutions - Physics Tutorial Room](#) Torque ( ) is a measure of how much a force causes an object to rotate around a pivot point. The SI unit for torque is the Newton metre (N·m). Torque is a pseudovector, since it can either be clockwise or counterclockwise.

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Use the formula for torque, where F is the force exerted, r is the distance from the center of rotation to the point where the force is exerted, and  $\theta$  is the angle between the two vectors. In this problem, the string is the pivot arm, so  $r = 2.8$  meters. The force exerted on it at the point of contact with the pendulum is the force of gravity on the pendulum: the weight of the pendulum.

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Answer: The formula for torque is:  $\tau = r \times F = rF \sin \theta$ . So for an angle of  $60.0^\circ$ :  $\tau = (0.84 \text{ m})(45 \text{ N}) \sin(60.0^\circ) = 32.7 \text{ Nm} = 33 \text{ Nm}$ . If the force is applied at an angle of  $90.0^\circ$  to the radius, the sin factor becomes 1, then the torque value is:  $\tau = rF = (0.84 \text{ m})(45 \text{ N}) = 37.8 \text{ Nm} = 38 \text{ Nm}$ . Problem #2.

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Access Free [Physics Torque Problems And Solutions](#) [Physics Torque Problems And Solutions](#) Answer: The formula for torque is:  $\tau = r \times F = rF \sin \theta$ . So for an angle of  $60.0^\circ$ :  $\tau = (0.84 \text{ m})(45 \text{ N}) \sin(60.0^\circ) = 32.7 \text{ Nm} = 33 \text{ Nm}$ . If the force is applied at an angle of  $90.0^\circ$  to the radius, the sin factor becomes 1, then the torque

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[Physics Torque Practice Problems With Solutions](#) Solution : The torque 1 rotates beam clockwise, so assigned a negative sign to the torque 1.  $\tau_1 = F_1 l_1 = (20 \text{ N})(0.7 \text{ m}) = -14 \text{ N m}$ . The torque 2 rotates beam counterclockwise, so assigned a positive sign to the torque 2.  $\tau_2 = F_2 l_2 = (10 \text{ N})(0.3 \text{ m}) = 3 \text{ N m}$ .

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by Brilliant Staff. A fastener is a system of 2 objects - a bolt and a nut. You come across such a bolt/nut system tightened all the way, so that the nut and the top of the bolt are pressing against each other with a force of 5 N.

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Practice Problems: Torque Physics  $\tau = r \times F \sin \theta$ . 1. A 200 g mass is placed on the meter stick 20 cm from the fulcrum. An unknown mass is positioned 8 cm from the fulcrum to balance the system. What is the mass of this unknown object? Load: 200 Fulcrum ans.  $m = 0.5 \text{ kg}$  2. A 250 g mass is placed on the meter stick 30 cm from the fulcrum.

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[Physics Torque Practice Problems With Solutions](#) physics torque practice problems with Practice Problems: Torque Practice Problems: Torque Physics =  $r \times F \sin \theta$  1 A 200 g mass is placed on the meter stick 20 cm from the fulcrum An unknown mass is positioned 8 cm from the fulcrum to balance the system What is the mass of this unknown object?

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The torque is equal to  $r \times F = (3.2,0) \times (4,5,0) = (0,0,7)$  (using cross-product multiplication), and since it's a positive number, the torque acts counterclockwise on the rigid body. The magnitude of  $r$  is denoted as  $|r| = (3^2 + 2^2)^{1/2} = 13^{1/2}$ , and the magnitude of  $F$  is denoted as  $|F| = (4^2 + 5^2)^{1/2} = 41^{1/2}$ .

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[Physics Torque Practice Problems With Solutions](#) Problem The length of a bicycle pedal arm is  $r = 0.152 \text{ m}$ , and a downward force of  $F = 111 \text{ N}$  is applied by the foot What is the magnitude of torque about the pivot point when the angle  $\theta$  between the arm &

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