



AP Physics C

Mechanics

Semester One

Final Exam

Review Video

$$\sum F_r = T_1 \sin \theta + T_2 \sin \theta = m \omega^2 R$$

$$\sum F_y = T_1 \cos \theta + T_2 \cos \theta - mg = 0$$

$$T_1 = T_2 = \frac{mg}{\cos \theta}$$

$$T_1 \sin \theta + T_2 \sin \theta - \frac{mg}{\cos \theta} \sin \theta = m \omega^2 R$$

$$T_1 \sin \theta + T_2 \sin \theta - mg \tan \theta = m \omega^2 R$$

$$2T_1 \sin \theta = m (g \tan \theta + \omega^2 R)$$

The figure above the mass m is held by two strings and the system is rotating with angular velocity ω . Find the tension in each string in terms of m , ω , r , and θ . What is the magnitude of T_1 .

$$\frac{m \omega^2 r}{2 \sin \theta}$$

$$\frac{m}{2 \sin \theta} (\omega^2 r + g \tan \theta)$$

$$\frac{m}{2 \sin \theta} (\omega^2 r - g \tan \theta)$$

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