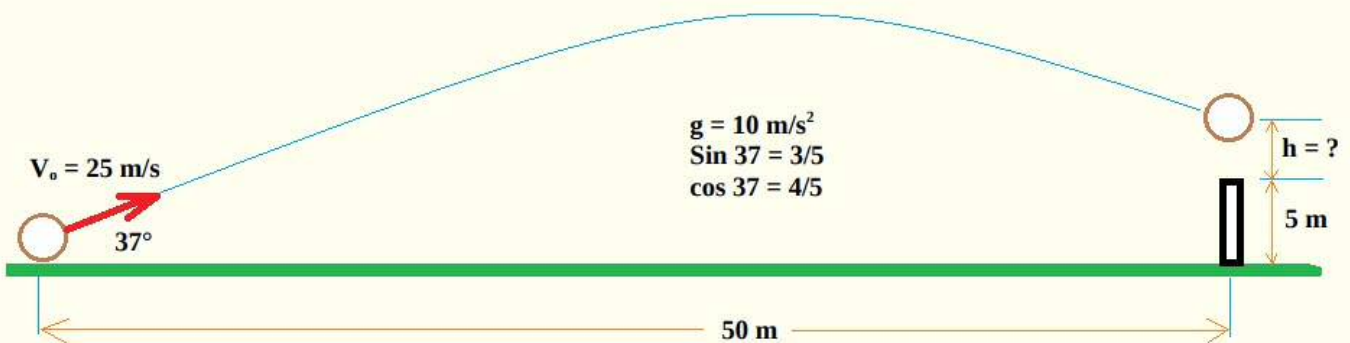


An Exercise in Projectile Motion



A soccer player kicks a ball at 25 m/s and 37 degrees from the ground toward a wall 5 m high located 50 m away. Will the ball clear the wall? If it does, what is the distance h between the ball and the wall when the ball is passing the plane of the wall? For gravity use 10 m/s^2 , $\sin 37 = 3/5$, $\cos 37 = 4/5$.

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