

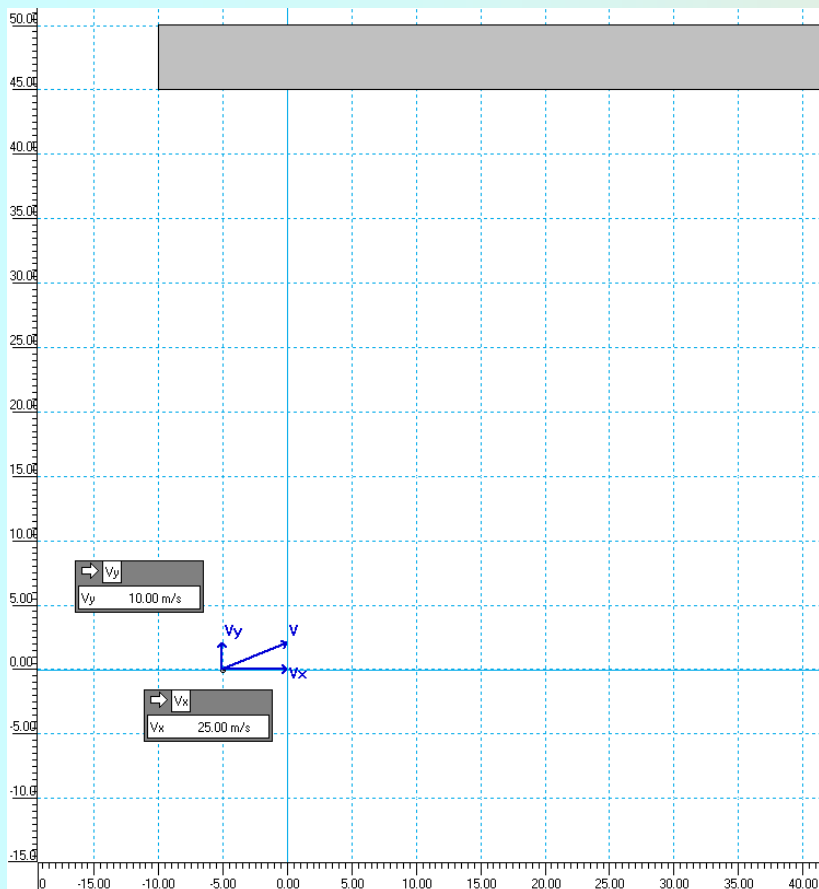
Motion with Constant Velocity: Problem

PROBLEM #1

A body moves according to the picture,

initial position vector: $\vec{r}_0 = -5 \vec{i}$ (m)

velocity: $\vec{v}_0 = 25 \vec{i} + 10 \vec{j}$ (m/s)



Determine:

- the equation of the position vector
- the position at $t=4$ s
- the point at which the body will hit the wall
- the displacement from the initial position to the moment in which the body hits the wall
- the magnitude and direction of the velocity

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PROBLEM #2

According to the x-t graph below, calculate when and where the moving bodies pass each other.

NOTE:

Suppose that the value of "Y" coordinate is zero at every point

