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EXERCISE 2

Determination of the initial speed of a projectile in the horizontal projectile motion

Objectives: In the present laboratory course students will determine the initial speed of a projectile, performing a horizontal projectile motion, measuring the height of the launching point from the floor and the horizontal distance the projectile covers from the launching point to the ground.

Theoretical background

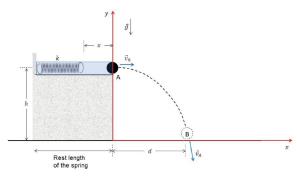


Figure 1: The horizontal projectile motion of an object from a point of height h above the ground.

We consider an 0xy orthogonal coordinate system, as shown in Figure 1. The position and velocity equations on the x and y axes are given respectively by

$$v_x = v_0 \tag{1}$$

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