

Frame of Reference

Relative to motion of objects

K – frame of reference

Coordinates written as: (x, y, z)

$$(x, y, z) = (4\text{m}, 3\text{m}, 1\text{m}) \quad K$$

$$(x', y', z') = (2\text{m}, 3\text{m}, 1\text{m}) \quad K'$$

EX.

Object is at origin of K'

$$(x, y, z) = (X\text{m}, 0\text{m}, 0\text{m}) \quad K$$

$$(x', y', z') = (0\text{m}, 0\text{m}, 0\text{m}) \quad K'$$

X for K changes because K' is moving

Object goes up and back down

For K' – object goes straight up and down

object is moving in x direction

For K – object has a parabolic form (path)

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