

Horizontal projection

Questions

1. What is the x -component of initial velocity of the horizontally projected body?
2. What is the y -component of initial velocity of the horizontally projected body?
3. What is the y -component of initial velocity of the freefalling body?
4. What happens to TOD of the horizontally projected body if the initial velocity is doubled?
5. What happens to TOD of the horizontally projected body if the height is doubled?
6. What happens to final of the horizontally projected body if the initial velocity is doubled?

Note :

While simulations help to provide valuable insights and visualizations, a rigorous mathematical solution should always be considered as a benchmark, demonstrating not just familiarity with the concept, but a deep understanding of the underlying principles.

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