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#### Problem 1.15

[Difficulty: 5]

- 1.15 For Problem 1.14, the initial bosizontal speed of the sky diver is 70 m/s. As she falls, the k value for the vertical drag remains as before, but the value for horizontal motion is k = 0.05 N·s/m². Compute and plot the 2D trajectory of the sky diver.
- Givon: Data on sky diver: M = 70 kg  $k_{\text{vert}} = 0.25 \cdot \frac{N \cdot s^2}{m^2}$   $k_{\text{borse}} = 0.05 \cdot \frac{N \cdot s^2}{m^2}$   $U_0 = 70 \cdot \frac{m}{s}$
- Find: Plot of trajectory.
- Solution: Use given data; integrate equation of motion by separating variables.

Treat the sky diver as a system, apply Newton's 2nd law in borizontal and vertical directions:

Vertical: Newton's 2nd law for the sky diver (mass M) is (ignoring buoyancy effects):  $M \cdot \frac{dV}{dt} = M \cdot g - k_{vert} \cdot V^2$  (1)

For F(r) we need to integrate (1) with respect to r:

Separating variables and integrating: 
$$\int_{0}^{V} \frac{V}{\frac{M \cdot g}{k_{vert}} - V^2} \, dV = \int_{0}^{t} 1 \, dt$$
 so 
$$t = \frac{1}{2} \cdot \sqrt{\frac{M}{k_{vert} \cdot g}} \cdot \ln \left[ \left| \sqrt{\frac{M \cdot g}{k_{vert}} + V} \right| \right| \left| \sqrt{\frac{M \cdot g}{k_{vert}} - V} \right| \right]$$
 Rearranging: 
$$V(t) = \sqrt{\frac{M \cdot g}{k_{vert} \cdot g}} \cdot \left( 2 \cdot \sqrt{\frac{k_{vert} \cdot g}{M}} + 1 \right)$$
 so 
$$V(t) = \sqrt{\frac{M \cdot g}{k_{vert} \cdot g}} \cdot \tanh \left( \sqrt{\frac{k_{vert} \cdot g}{M}} + 1 \right)$$

$$y(t) = \int_0^t V(t) \, dt = \int_0^t \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \, tarb \left( \sqrt{\frac{k_{\text{vert}} \cdot g}{M}} \cdot t \right) \, dt = \sqrt{\frac{M \cdot g}{k_{\text{vert}}}} \, \ln \left( \cosh \left( \sqrt{\frac{k_{\text{vert}} \cdot g}{M}} \cdot t \right) \right)$$

$$y(t) = \sqrt{\frac{M \cdot g}{k_{\text{NSST}}}} \cdot ln \left( cosb \left( \sqrt{\frac{k_{\text{NSST}} \cdot g}{M}} \cdot t \right) \right)$$

For y(r) we need to integrate again:

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**Guillaume Favre** 

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