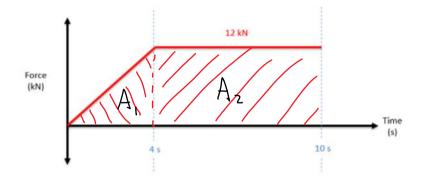
Problem 3

The plot below shows the thrust generated by the engine on a jet fighter (2500 kg) over ten seconds. If the plane is starting from rest on a runway and friction and drag are negligible, determine the speed of the plane at the end of these ten seconds.



$$A_1 = \frac{1}{2} (4_s) (12 hN) = 24 hN_s$$

 $A_2 = (6_s) (12 hN) = 72 hN_s$