20-P-MOM-PT-009

December 31, 2020 3:26 AM

If momentum "p" varies with time such that p= 5.67t^8.91 and is measured in kg m/s, what is net force as a function of time? Assume the answer is measured in Newtons.

What is the net force at t=2.31 seconds?

$$F = 50.52 (2.31)^{7.91} N$$

 $F = 3.8 \times 10^4 N$