20-R-VIB-DY-49 Beginner.

A target, with m= 5 kg, in an archery range is attached to a wall with a spring, k= 50 N/m. An archer shoots a m= 1 kg arrow which sticks into the target. As a result of an impact with the arrow, the target has a horizonta initial velocity vo = 5 m/s. Determine the maximum amplitude and the displacement at t=10s.

$$\begin{aligned}
& \sum_{k=1}^{m} F_{k} = M C \\
& \sum_{k=1}^{m} F_{k} = 0 \\
& \sum_{k=1}^{$$

@ E=10

= -1,436

max amplifude