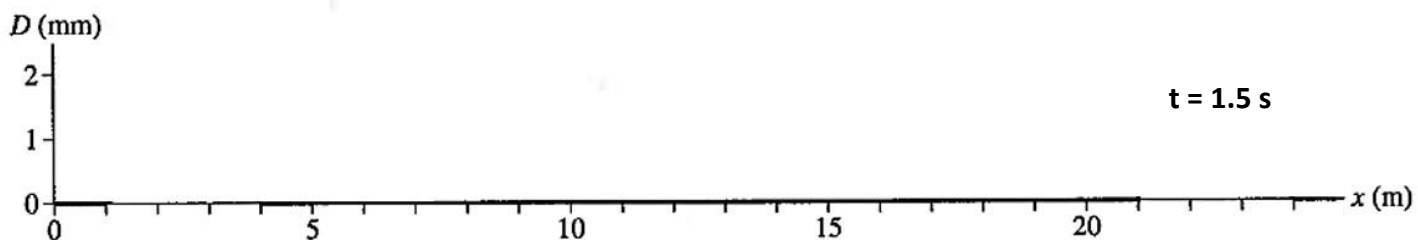
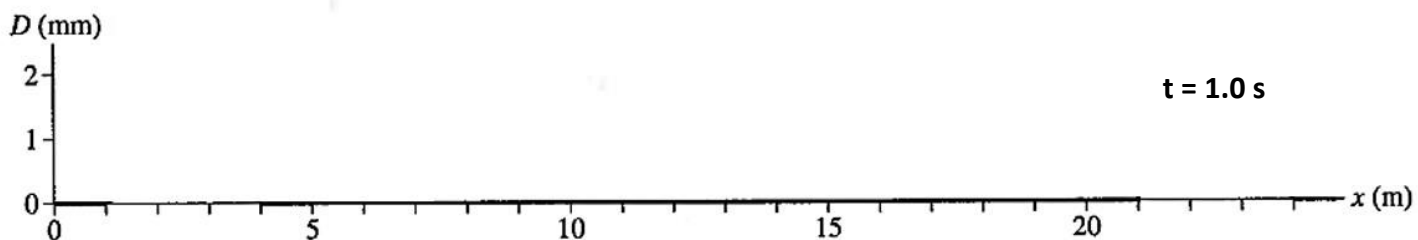
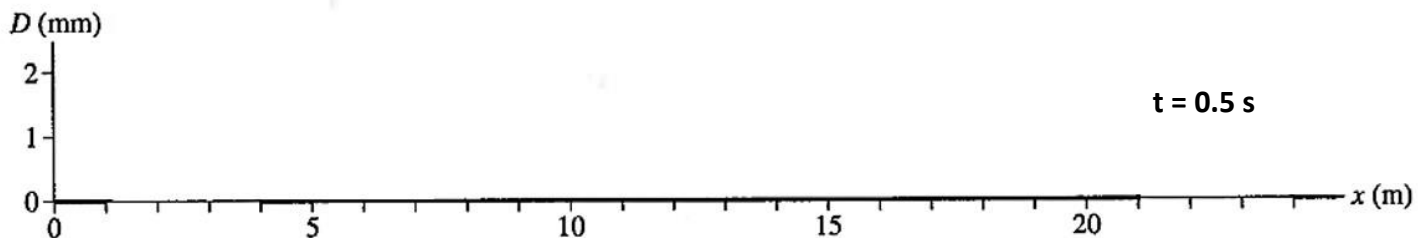
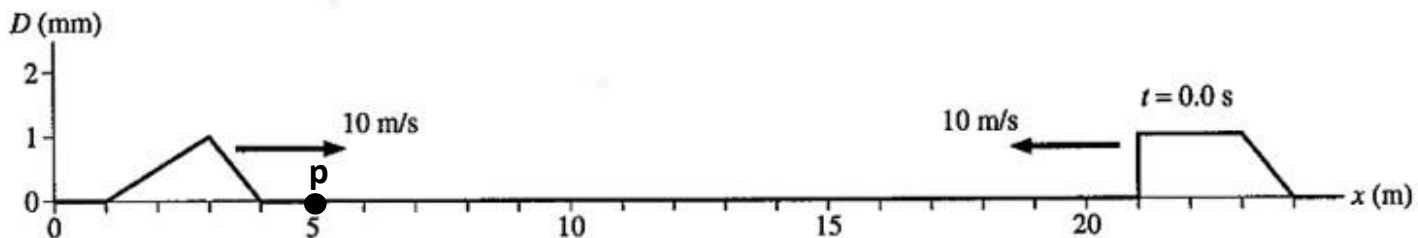
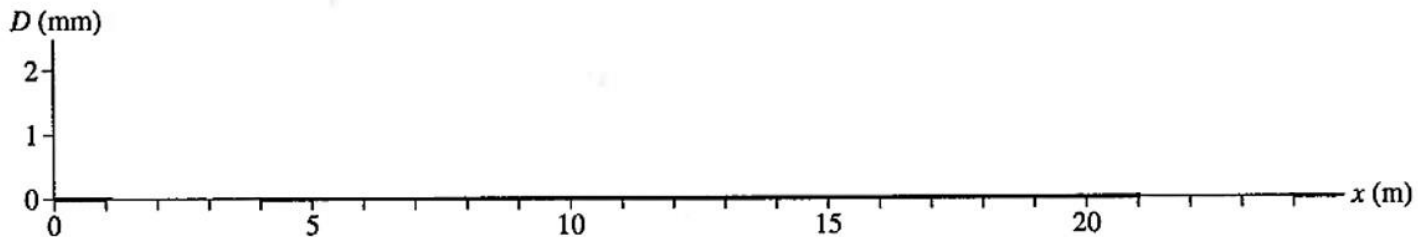


College Board Big Idea 6.D.1.1: The student is able to use representations of individual pulses and construct representations to model the interaction of two wave pulses to analyze the superposition of two pulses.

1). Two pulses are on a string traveling towards each other as shown below. On each of the axes below, sketch the waves on the string at the indicated times. Do any scratch (practice) work on the last axes provided on this page.



The coordinate axes below are for scratch work only. The sketch made below will NOT be graded.



2). Between time  $t = 0.0$  s and  $t = 0.5$  s, the pulse on the left approaches and moves beyond point **p** on the string. On the coordinate axes below, plot the velocity of the piece of string located at point **p** as a function of time between time  $t = 0.0$  s and  $t = 0.5$  s.

