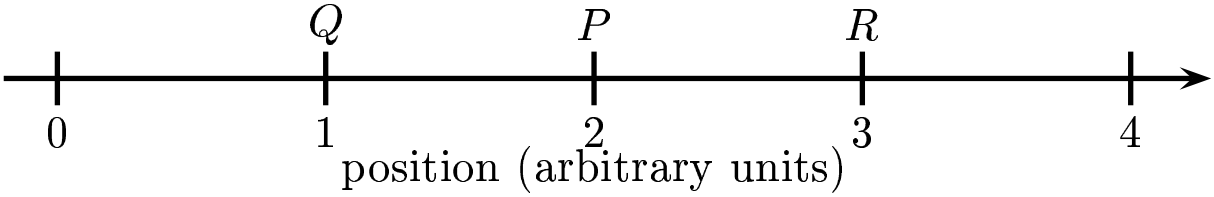
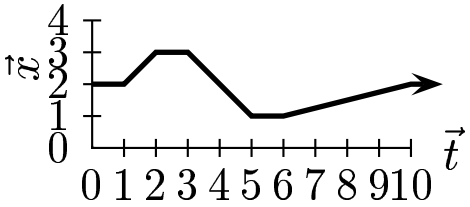
Annabelle initially at point P (in the illustration below) stays there a moment and then moves along the position axis to R and stays there a moment. She then runs quickly to Q, stays there a moment and then strolls slowly back to P.

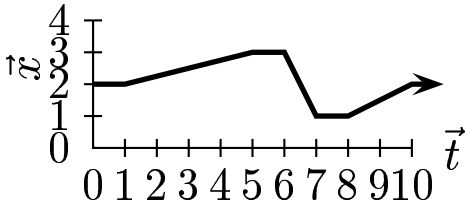


Which graph correctly describes x & t for the motion?

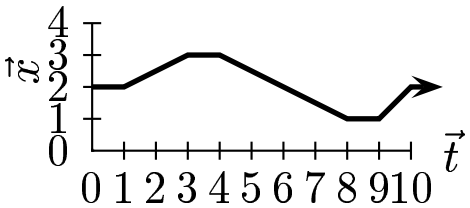
A)



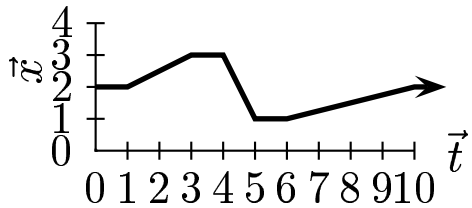
B)



C)

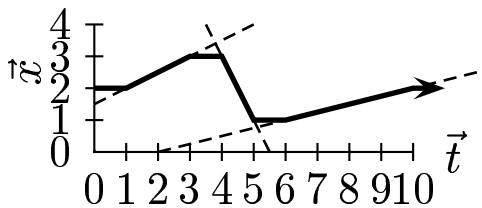


D)



Notice that the slope of the curve is greatest between $x = 3$ and $x = 1$ and the slope of the curve is smallest between $x = 1$ and $x = 2$. The slope represents the velocity. The motion along the x-axis is described by $x(t)$.

D)



Answer **D**.