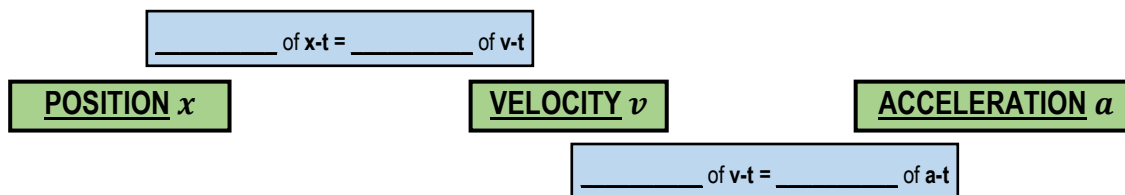


CONCEPT: GRAPHING POSITION, VELOCITY, AND ACCELERATION GRAPHS

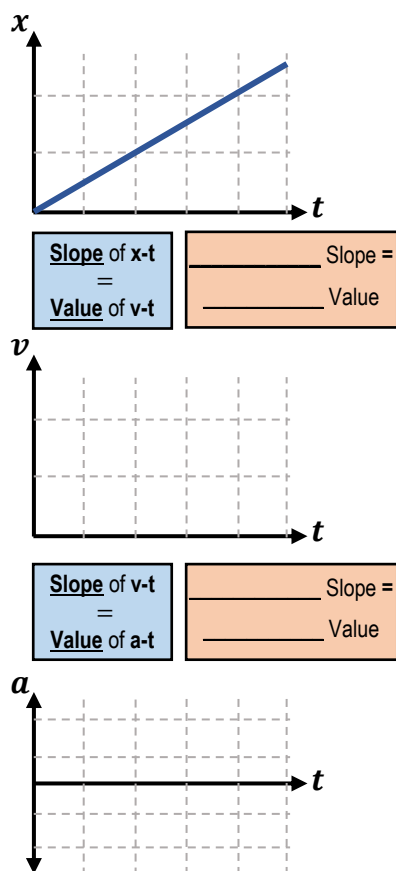
- When sketching motion graphs, remember the relationships between the 3 motion variables:



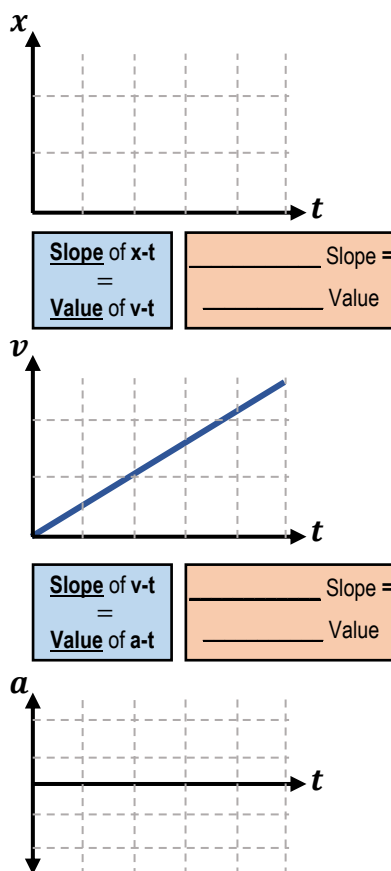
EXAMPLE: In the diagrams below, using the given graph, sketch the missing graphs.

For parts **B** and **C**, assume you start at rest ($v_0=0$) from the origin ($x_0=0$).

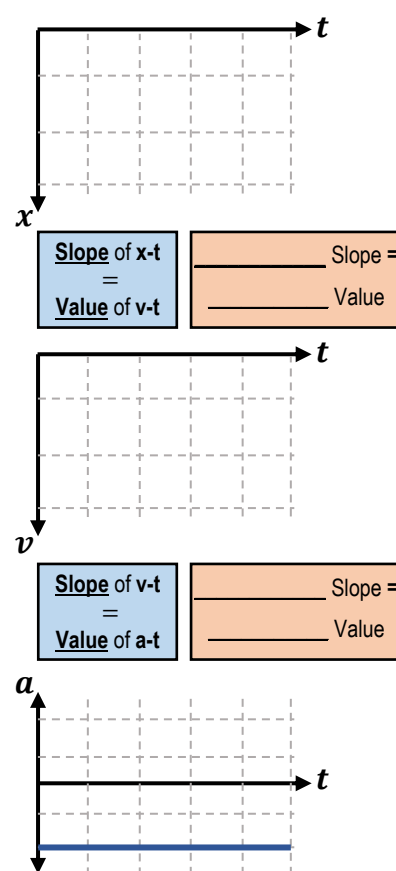
a)



b)



c)



EXAMPLE: Starting from the origin, your velocity-time graph is shown below. Sketch the position and acceleration graphs.

