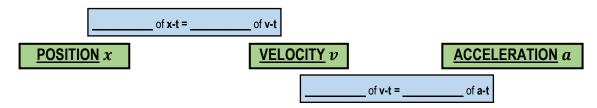
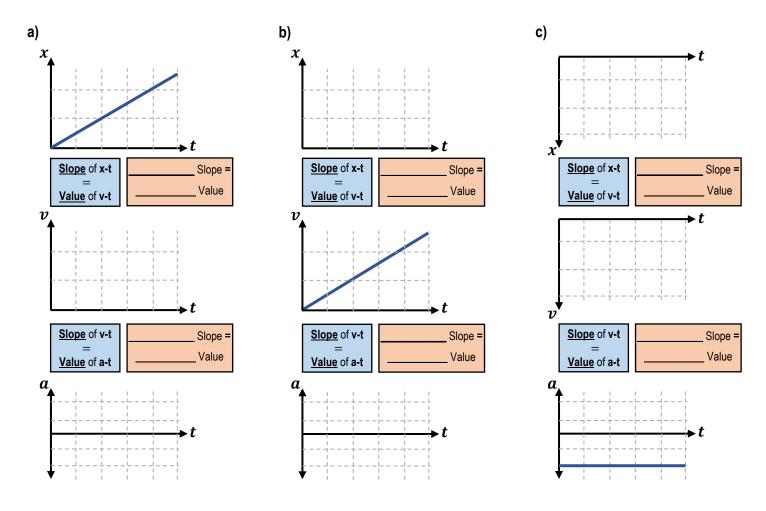
## **CONCEPT: GRAPHING POSITION, VELOCITY, AND ACCELERATION GRAPHS**

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



<u>EXAMPLE</u>: 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  $(x_0=0)$ .



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

