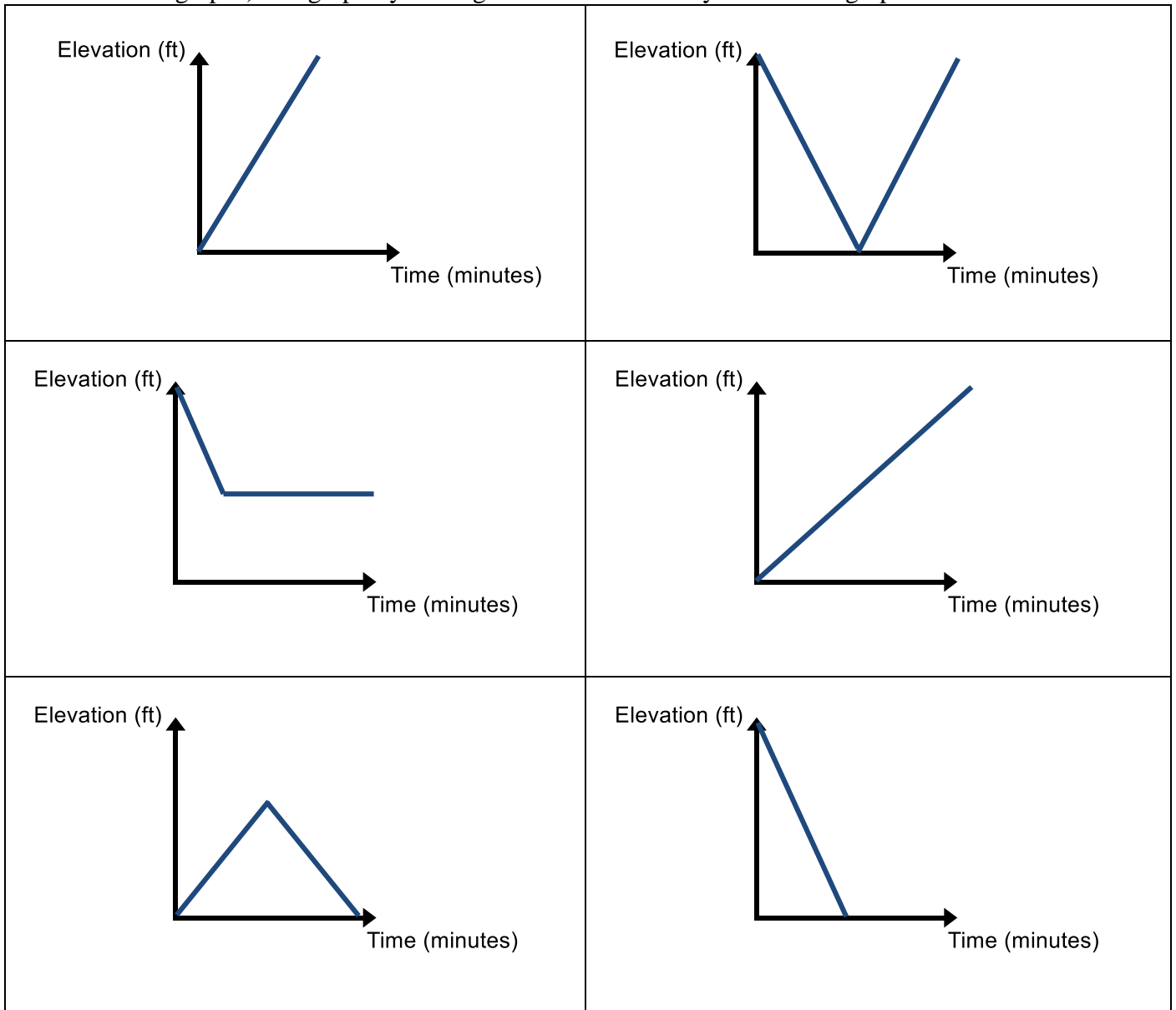


5.3e Homework: School's Out

1. The graphs below show Estefan's elevation (height above the ground) over time as he is playing around on a flight of stairs. Assume the bottom of the stairs has an elevation of 0 feet. Match each story (shown below the graphs) to a graph by writing the letter of the story under each graph.



Story A: Estefan starts at the bottom of the stairs and walks up the stairs at a constant rate.

Story B: Estefan starts at the bottom of the stairs and sprints up the stairs at a constant rate.

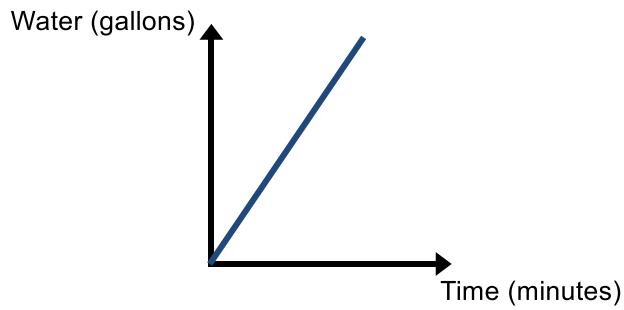
Story C: Estefan starts at the bottom of the stairs, runs half-way up the stairs, turns around and runs back down the stairs.

Story D: Estefan starts at the top of the stairs and sprints down the stairs until he reaches the bottom.

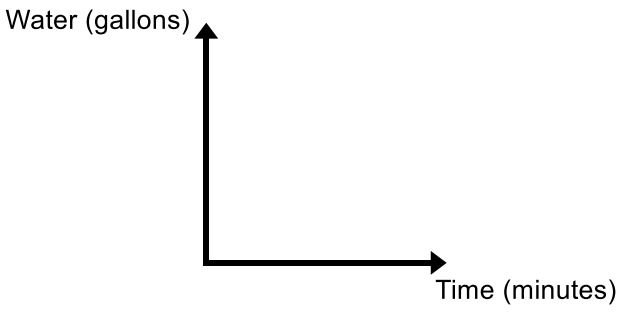
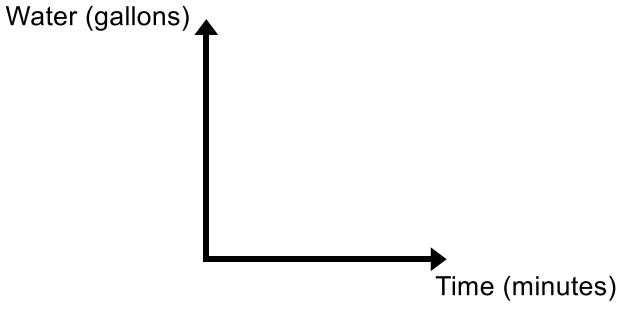
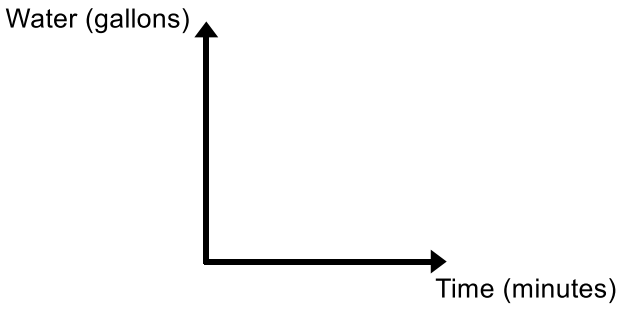
Story E: Estefan starts at the top of the stairs, sprints down the stairs, and stops when he is half-way down the stairs.

Story F: Estefan starts at the top of the stairs, runs down to the bottom, turns around and runs back up to the top of the stairs.

2. The graph below tells the story of Keli filling up her empty swimming pool with a hose at a constant rate. Create new graphs based on the changes described below.



<p>a. After Keli has been filling the pool for a few minutes, her friend decides to help her and puts a second hose in the pool.</p>	
<p>b. After Keli has been filling the pool for a few minutes, the hose gets a hole in it so the water is coming out at a slower rate.</p>	
<p>c. The pool started with some water in it.</p>	

<p>d. Kelii fills the pool up and realizes that she filled it up too much so she drains some of the water out at a constant rate.</p>	
<p>e. Kelii fills up the pool, her brother drops his ice cream into the pool, so she drains the water back out at a constant rate until the pool is empty.</p>	
<p>f. Kelii starts filling the pool, stops to go eat lunch, and then comes back out and starts filling up the pool again.</p>	
<p>g. Kelii fills the pool half-way and decides that is enough.</p>	