



**Objective:** Linear Function Graphs and Events

**Homework FI-1** – NYA p.254 #6, 11, 12, 16, 19 – 21, 23, 24

**Do Now:** Name the location of the point on the x-y plane.

1. (3, -4)    2. (0, -1)    3. (-5, 17)    4. (-9, -2.5)    5. (0, 0)    6. (7, 0)

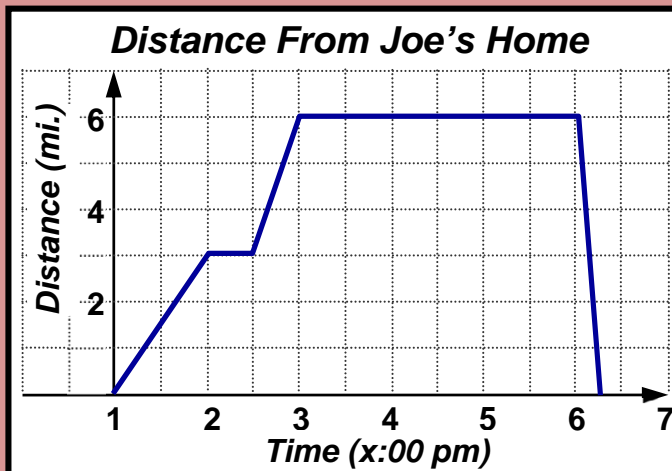
**Exam Prep:** Which point is on the graph of the function  $y = 3x - 5$ ?

- A) (4, 17)    B) (17, 4)    C) (4, 7)    D) (7, 4)    E) none of these

Joe is going to Vinny's house on foot. On the way he meets Charlie and talks. He arrives and then gets a ride home.

**Questions**

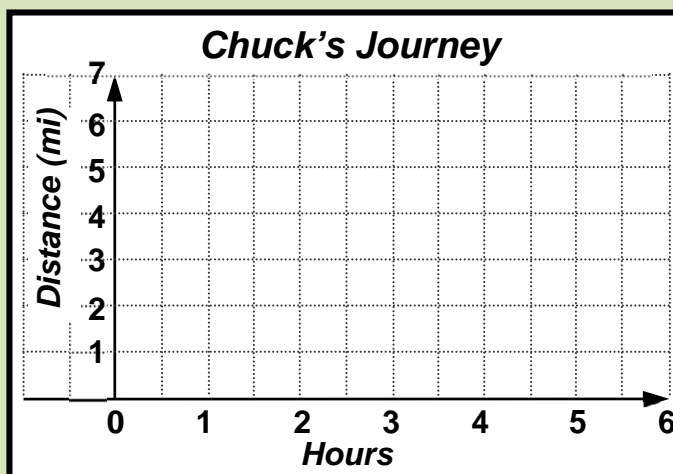
1. When does he meet Charlie? How long do they talk?
2. How fast is he walking before and after he meets Charlie?
3. When does he get to Vinny's?
4. When does he leave? Get home?
5. How fast was his ride?



Graph Chuck's journey to the home base using the given information.

**Given Events**

1. Chuck leaves the jungle, 7 miles from his base, at 0-hour.
2. He travels 1 mile in 1 hour and stops to hide and eat for 90 min.
3. He sees an opening and moves 2 miles in the next hour, but then sees he is being pursued.
4. Chuck was forced to go back 1 mile, in 30 minutes, and then he stopped to hide again for another 30 minutes.
5. Finally he ran home in the next hour.

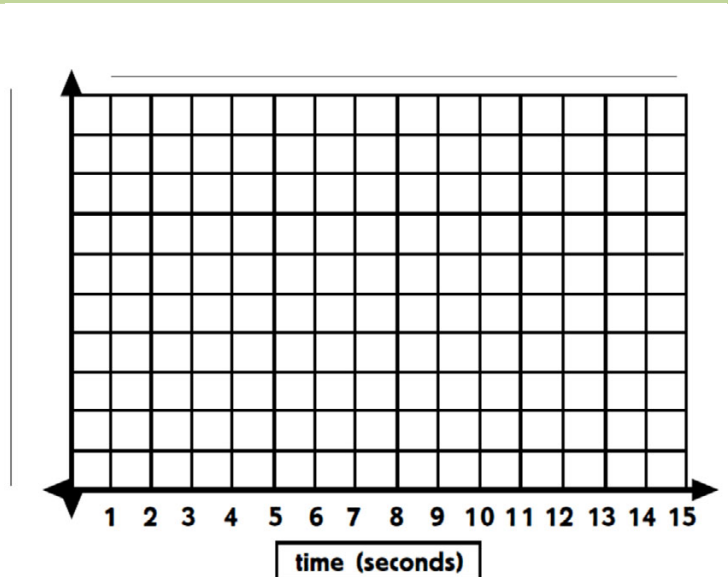


## Graphing Elevation vs. Time via watching a video!

### Graphing Elevation vs. Time



### Notes:



### Key Events (Time, Elevation)

- |                                       |                                     |
|---------------------------------------|-------------------------------------|
| 1. Exits home. (0, 30)                | 6. Descends last staircase. (9, 10) |
| 2. Descends first staircase. (3, 30)  | 7. Arrives at ground-level. (11, 0) |
| 3. Arrives at landing. (5.5, 20)      | 8. Steps onto driveway. (13, 1)     |
| 4. Descends second staircase. (7, 20) | 9. Exits screen. (15, 1)            |
| 5. Arrives at landing. (8.5, 10)      |                                     |

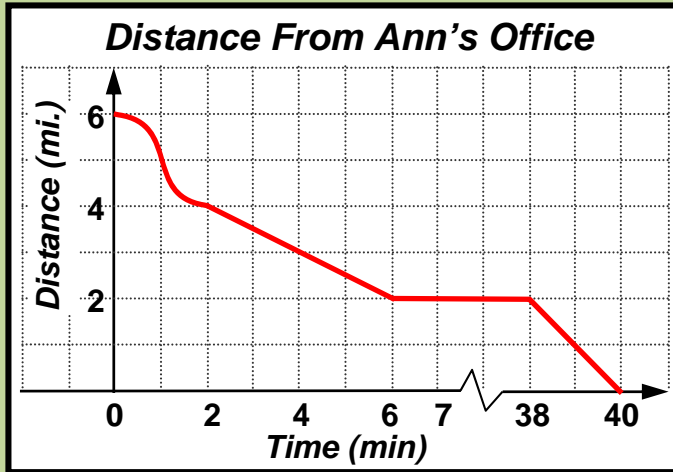
**Note: video elevation over-estimated**

## Extra Material

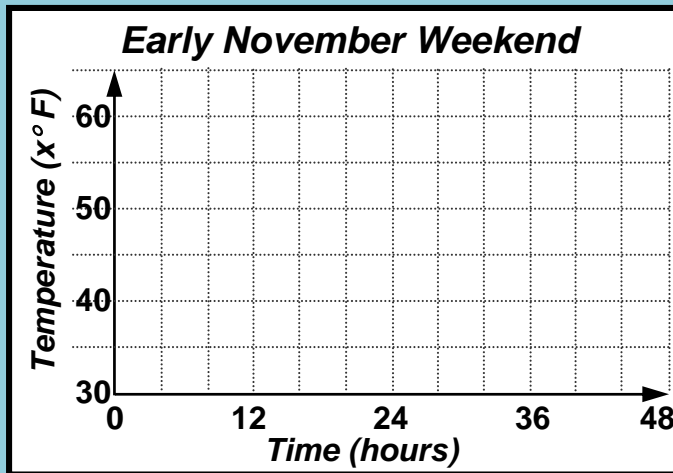
Ann is driving home from work. She takes a variety of roads and makes a stop at a store.

### Question

Describe the ride, justify all changes.



## Event Graph Construction



### Graph the Events

12:00 AM (0 hrs): 45°

Temperature Saturday reached a high of 62° at 2pm. The low temperature of the weekend was at 4am Sunday, 35°. Sunday's high was 55°.

12:00 AM (48 hrs): 40°.