1. The following is the trajectory followed by a person. Graph it.
2. (2, 3) c. (-1, 4) e. (1, -1) g. (-2, -3)
3. (-3, -2) d. (3. 5) f. (2,-4) h. (5, 5)

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1. Juan walks 10m east. He stops at the store and then walks 2m West.
   1. What distance did he travel? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. What is his displacement? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Susana walks 50m north.
   1. What distance did she travel? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. What is her displacement? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Tim walks 70m north. Then he travels 50m south.
   1. What distance did he travel? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. What is his displacement? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Calculate the instantaneous velocity and acceleration of a runner. Write your PROCEDURE in the assigned space

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| Problem # | Time (s) | Distance (m) | Velocity (m/s) | Acceleration (m/s²) |
| a. | 0 | 0 |  |  |
| b. | 2 | 3 |  |  |
| c. | 4 | 5 |  |  |
| d. | 6 | 9 |  |  |
| e. | 8 | 10 |  |  |

**Use the chart below to show your procedure**

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| b.Velocity | c.Velocity | d.Velocity | e.Velocity |
| b. Acceleration | c.Acceleration | d.Acceleration | e.Acceleratio |