**Distance Test Plan**

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| --- | --- | --- | --- |
| **Input** | **Reason** | **Expected** | **Actual** |
| Initial velocity :0  Time : 0  Acceleration :0 | distance = 0\*0+(1 / 2.0)\*0\*(0\*0) | 0 | 0.0 |
| Initial velocity :1  Time : 2  Acceleration :3 | distance = 1\*2 /(½)\*3\*(2\*2) | 8 | 8.0 |