

Walking
$$Vix=1.3m/s$$

$$Viy=0m/s$$

$$\Delta dy=-43.4m$$

$$\alpha^2=-9.8m/s^2$$

-43.4 =
$$\Delta t^2$$

*notice how the time of drop is the same doesn't matter if he is walking or running

2.9 sec= Δt

(vaning)

$$\Delta d_x = V_{ix} \cdot \Delta t$$

$$\Delta d_x = 1.3(2.9)$$

$$\Delta d_x = 3.77m$$
* This would be distance from the

* This would be distance from the building if he committed suicide (assuming Starting from rest/walking)

$$-43.4 - 4t^2$$

-4.9
 $18.84 = 4t$

.. He sprinted and jumped since the pool was 22m from the building, if he was running and jumped, he would have landed at 20.0 m + 2.3m (being short) which would have landed him in the pool