$$∆d=v\_{1}∆t\_{1}+\frac{1}{2}a∆t\_{1}^{2}$$

$$v\_{1}=0$$

$$∆d=\frac{1}{2}a∆t\_{1}^{2}$$

$$∆t\_{1}=\sqrt{\frac{a}{2∆d}}$$

$$∆d\_{x}=v\_{x}∆t\_{2}$$

$$v\_{x}=\frac{∆d}{∆t\_{2}}$$

$$∆d\_{x}= \frac{v\_{x}}{\sqrt{\frac{a}{2∆d}}}$$

$$∆d\_{x}=\frac{\frac{∆d}{∆t\_{2}}}{\sqrt{\frac{a}{2∆d}}}$$

$$∆d\_{x}=\frac{\frac{0.015m}{0.009165 s}}{\sqrt{\frac{-9.8}{2(-0.925)}}}$$

$$∆d\_{x}=0.71 m$$