# Physics Interactive Quiz :                                    Name:

| # | 1 | question | Answer | | | 0 | <--score |
|---|---|---|---|---|---|---|---|
| # 1 | 10 | m/s is the muzzle velocity of a projectile shot at 30°. Find the range. | | 8.8367 | 100 | 0 | |
| # 2 | 10 | Find the time in the air | | 1.0204 | 100 | 0 | |
| # 3 | 50 | meters is the height of a cliff a ball is kicked from horizontally at 5 m/s. Find the time in the air | | 3.1944 | 100 | 0 | |
| # 4 | 50 | Find the distance from the base of the cliff the ball lands | | 15.972 | 100 | 0 | |
| # 5 | 50 | Find the landing velocity | | 5.9333 | 100 | 0 | |
| # 6 | 3 | m/s is the initial downward velocity of a ball thrown from the same cliff. Find final vertical velocity | | 31.448 | 100 | 0 | |
| # 7 | 1.5 | m/s is the downstream velocity of a stream a swimmer crosses at 2 m/s. Find her resultant angle. | | 36.869 | 100 | 0 | |
| # 8 | 1.5 | Find her resultant velocity | | 2.5 | 100 | 0 | |
| # 9 | 1.5 | If the stream were 200 meters across, find the time it takes her to cross the stream. | | 100 | 100 | 0 | |
| # 10 | 1.5 | How far downstream does she land? | | 150 | 100 | 0 | |

***Extra Credit:  The Vx graph in your projectile motion labs had a non-linear slope. Explain why…***