1. A glass rolls off a 1.5m table with an initial velocity of 3.1m/s2.
   1. How far does it hit the ground from the base of the table? [1.7m]
   2. How long does it take the hit the ground? [0.55s]
2. A cannon is fired directly horizontally at 25m/s from a cliff 100m off the ground.
   1. How far does it hit the ground from the base of the cliff? [113m]
   2. How long does it take to hit the ground? [4.52s]
3. A car is driven off a bridge with an initial horizontal velocity of 35m/s. If the water is 75m below,
   1. How far from the bridge does it strike the water? [136.85m]
   2. How long does it take the hit the water? [3.91s]
4. A potato cannon launches with an initial velocity of 40m/s at an angle of 70 degrees above the horizontal.
   1. What is the maximum height the potato attains? [72.1m]
   2. How far does from the cannon does it travel? [105m]
   3. How long until it hits the ground? [7.68s]
5. A football is thrown from the ground with an initial velocity of 15m/s at an angle of 35 degrees
   1. What is the maximum height the football attains? [3.78m]
   2. How far does the football travel? [21.6m]
   3. How long until it hits the ground? [1.76s]
6. A football is kicked from the ground at an angle of 40 degrees with an initial velocity of 14m/s.
   1. What is the maximum height the football attains? [4.13m]
   2. How far does the football travel? [19.63m]
   3. How long until it hits the ground? [1.83s]
7. A golf ball is hit at an angle of 62 degrees with an initial velocity of 40m/s
   1. What is the maximum height the Golfball attains? [63.64m]
   2. How far does the golf ball travel? [254.29m]
   3. How long until it hits the ground? [7.2s]
8. A projectile is launched at 34m/s at 17 degrees above the horizontal off a cliff 73m tall
   1. What is the maximum height it attains? [78.04m]
   2. How far does it land from the base of the cliff? [162.57m]
   3. How long is it in the air? [5s]
9. A projectile is launched at 50m/s at 40 degrees above the horizontal off a cliff 100m tall
   1. What is the maximum height it attains? [152.7m]
   2. How far does it land from the base of the cliff? [339.36m]
   3. How long is it in the air? [8.86s]
10. A projectile is launched at 10m/s at 60 degrees off a cliff 83m above the ground.
    1. How high did it go? [191.14m]
    2. How far from the base of the cliff does it land? [22.5m]
    3. How long was it in the air? [4.5s]