



**Question 3** S = 14.07 MPHV = 20.62 FPS $a = 32.2 \cdot .15 = 4.83$ a  $t = \frac{20.62 - 0}{1000}$ 4.83 t = 4.2Seconds

Question 4 a 105.31 - 63.0319.32 t = 2.11Seconds $d = 2.09 \cdot 105.31$ d = 220.09Feetd = 220.09Feet + 184Feetd = 404.09 ft

**Question** 5  $d = 184 + 105.31 \cdot 1.5$ d = 341.96 feet  $80.63 fps \cdot 1.5 sec = 120.94 feet$  $d = \frac{S^2}{30 f}$  $d = \frac{55^2}{30 \cdot .60} = 168.05 \, feet$ 120.94 + 168.05 = 288.99 feet