

Young and Freedman, Chapter 3:

10. (a) 7.82 s (b) 469 m (c) $v_h = 60.0$ m/s, $v_v = 76.7$ m/s (downward) (e) 300 m above the bomb
18. (a) 1.63 s (b) 13.1 m (c) 3.27 s (double) (d) 65.3 m
32. (a) 2.99×10^4 m/s (b) 0.00595 m/s² (c) 4.78×10^4 m/s, 0.0395 m/s²
38. On shore: 0.750 hr; in boat: 1.47 hr
40. (a) 14.5° N of W (b) 310. km/hr
52. 55.5 m south
54. 29.5 m
64. $\sqrt{v_0^2 + 2gh}$