

Chapter 11:

11.16 -36.8 ft^2 , 1.832 s^{-2} .

11.25 (a) 0.1457 s/m . (b) 145.2 m . (c) 6.86 m/s .

11.42 (a) 5.50 ft/s^2 . (b) 9.25 ft/s^2 .

11.48 (a) $20.0 \text{ m/s}^2 \rightarrow$, $6.67 \text{ m/s}^2 \downarrow$. (b) $13.33 \text{ m/s} \downarrow$, $13.33 \text{ m} \downarrow$.

11.101 (a) $2.87 \text{ m} > 2.43 \text{ m}$. (b) 7.01 m from the net.

11.124 (a) $7.01 \text{ in./s} \nearrow 60^\circ$. (b) $11.69 \text{ in./s}^2 \nearrow 60.6^\circ$.

11.144 (a) $7.99 \text{ m/s} \searrow 40^\circ$. (b) 3.82 m .

11.156 $92.9 \times 10^6 \text{ mi}$.

11.172 61.8 mi/h , 49.7° .