Chapter 13:

13.6 (*a*) 32.8 mi/h. (*b*) 142.5 mi/h.

13.10 (*a*) 8.70 m. (*b*) 4.94 m/s ⩤ 15°.

13.26 (*a*) 2.32 ft/s. (*b*) 2.39 ft/s.

13.58 (*a*) 3.34 ft/s. (*b*) 27.7 ft/s^2.

13.65 (*a*) 43.5°. (*b*) 8.02 ft/s ↓.

13.73 14.34 ft/s ←, 13.77 lb ↑.

13.87 15.65×10^3 mi/h.

13.95 $v_r = 9.05$ ft/s, $v_\theta = 9.14$ ft/s.

13.101 29.8 m/s., delta v = 29.79 m/s

13.122 (*a*) 11.42 s. (*b*) $-(125.5 \text{ m/s})\mathbf{j} - (194.5 \text{ m/s})\mathbf{k}$.

13.133: t = 0.8155 sec

13.146 (*a*) A was going faster. (*b*) 115.2 km/h.

13.166 $\mathbf{v}'_A = 3.00$ m/s ⩤ 40°, $\mathbf{v}'_B = 3.00$ m/s ⩥ 40°.