

KEY W7.05

1.
 - a. 450.4 m/s
 - b. 1.2×10^3 N
 - c. -810.72 J
 - d. 0 Ns
 - e. Larger Δp for bullet when it bounces (+ to - v), so larger impulse
2. -17143 N (- means opposite direction of movement)
3. 2.86 m/s
4.
 - a. 0 m/s
 - b. 3 m/s (both reverse direction)
5.
 - a. 5000 kg
 - b. +650 J
6.
 - a. 1.67 m/s
 - b. -17333 J
 - c. heat, sound, deformation