

1) 1,667 m/s; 3,33 m/s

2) $v_2, v_3 = 6,93 \text{ m/s}$; $v_{2x}, v_{3x} = 6 \text{ m/s}$, $v_{2y}, v_{3y} = 3,46 \text{ m/s}$, $v_1 = 2 \text{ m/s}$, $v_{1x} = -2 \text{ m/s}$

3) 481,84 m/s

4) 0.58(3)

5) $(-1,4065 \text{ m/s}, 0)$, $(3,203 \text{ m/s}, 0)$

6) 4m

7) 58 kg/s, 178,86 kg/s