$V_A = 8 \text{ m/s}$

$V_C = 3 \text{ m/s}$

without V_C:

$2 V_A \doteq V_D$

$2 V_D = 2V_{C'} = V_B$

$V_B = 4 V_A$

with V_c:

$\Delta V_B = \dfrac{V_c}{2}$ (1:1, dependent motion)