$V_A = 8 \ m/s$

$V_C = 3 \ m/s$

without V_C:

$2 V_A \doteq V_D$

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

$V_B = 4 V_A$

with V_C:

$\Delta V_B = V_C$ (1:1, dependent motion)