

$v_{B1x} = -0.2 \sin[\phi(t)] \phi'(t) = -0.72552 \text{ m/s}$
 $v_{B1y} = 0.2 \cos[\phi(t)] \phi'(t) = 0.418879 \text{ m/s}$
 $a_{B1x} = -0.2 \cos[\phi(t)] \phi'(t)^2 - 0.2 \sin[\phi(t)] \phi''(t) = -1.7546 \text{ m/s}^2$
 $a_{B1y} = -0.2 \sin[\phi(t)] \phi'(t)^2 + 0.2 \cos[\phi(t)] \phi''(t) = -3.03905 \text{ m/s}^2$
 $x_D = -0.758831 \text{ m}$
 $y_D = -0.19868 \text{ m}$
 $v_{Dx} = 0.30661 \text{ m/s}$
 $v_{Dy} = -0.708086 \text{ m/s}$
 $a_{Dx} = 0.841861 \text{ m/s}^2$
 $a_{Dy} = 1.05257 \text{ m/s}^2$
 $x_E = -0.7 \text{ m}$
 $y_E = 0.0442993 \text{ m}$
 $v_{Ex} = 0 \text{ m/s}$
 $v_{Ey} = -0.633848 \text{ m/s}$
 $a_{Ex} = 0 \text{ m/s}^2$
 $a_{Ey} = 0.846817 \text{ m/s}^2$
 $\phi_2 = 0.408638 \text{ rad} = 23.4132 \text{ deg}$
 $\omega_2 = 1.54324 \text{ rad/s}$
 $\alpha_2 = -1.26276 \text{ rad/s}^2$
 $\phi_4 = 1.33324 \text{ rad} = 76.3892 \text{ deg}$
 $\omega_4 = 1.26188 \text{ rad/s}$
 $\alpha_4 = 3.0792 \text{ rad/s}^2$
 $\phi = \phi_1 = 60^\circ$
 $x_B = 0.1 \text{ m}$
 $y_B = 0.173205 \text{ m}$
 $x_D = -0.758831 \text{ m}$
 $y_D = -0.19868 \text{ m}$
 $x_E = -0.7 \text{ m}$
 $y_E = 0.0442993 \text{ m}$

