

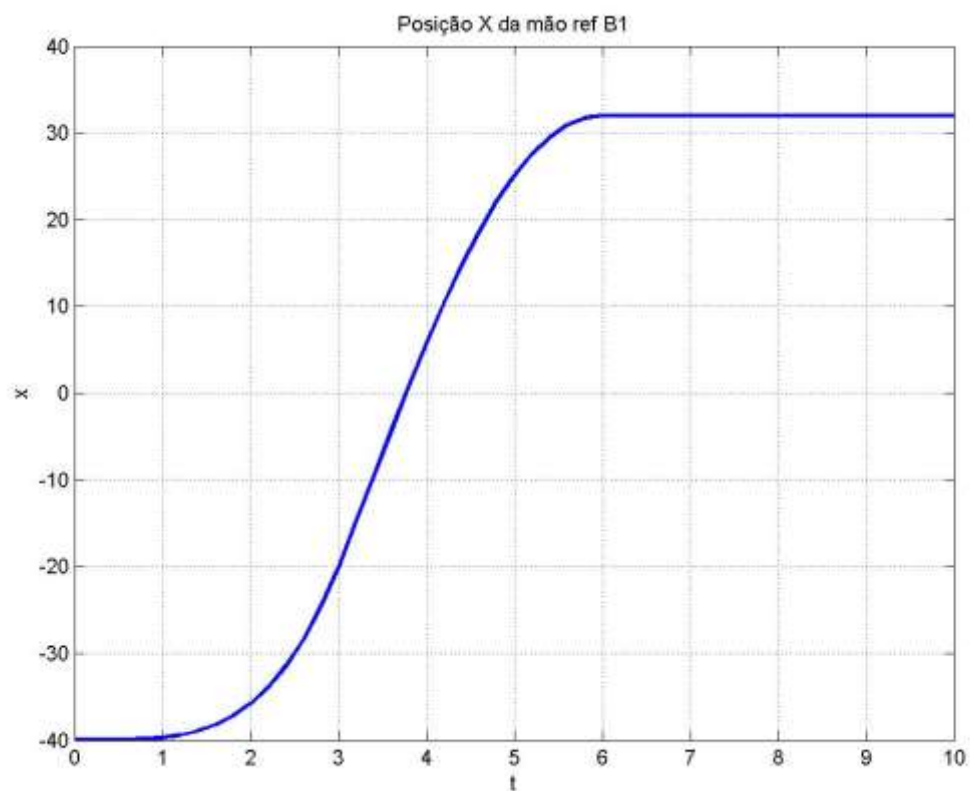
Apêndice 2

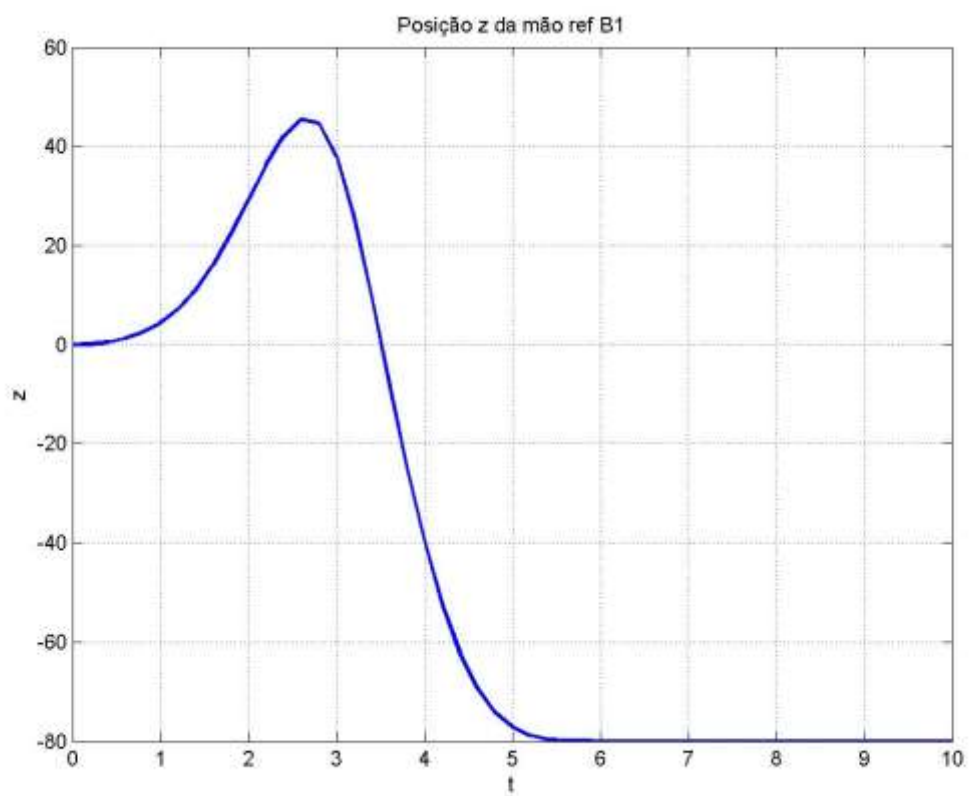
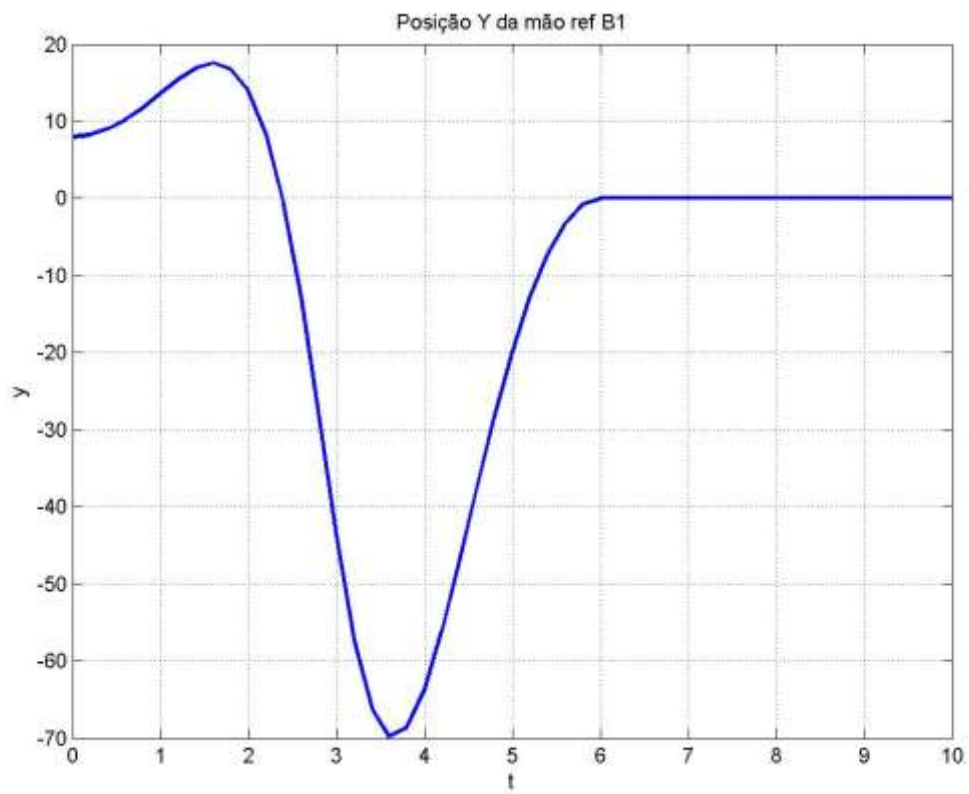
Gráficos para cinemática direta e diferencial com todas as configurações de ângulos testadas para a perna e para o braço de acordo com seus referenciais de forma ampliada

1. Gráficos gerados para o Braço Direito

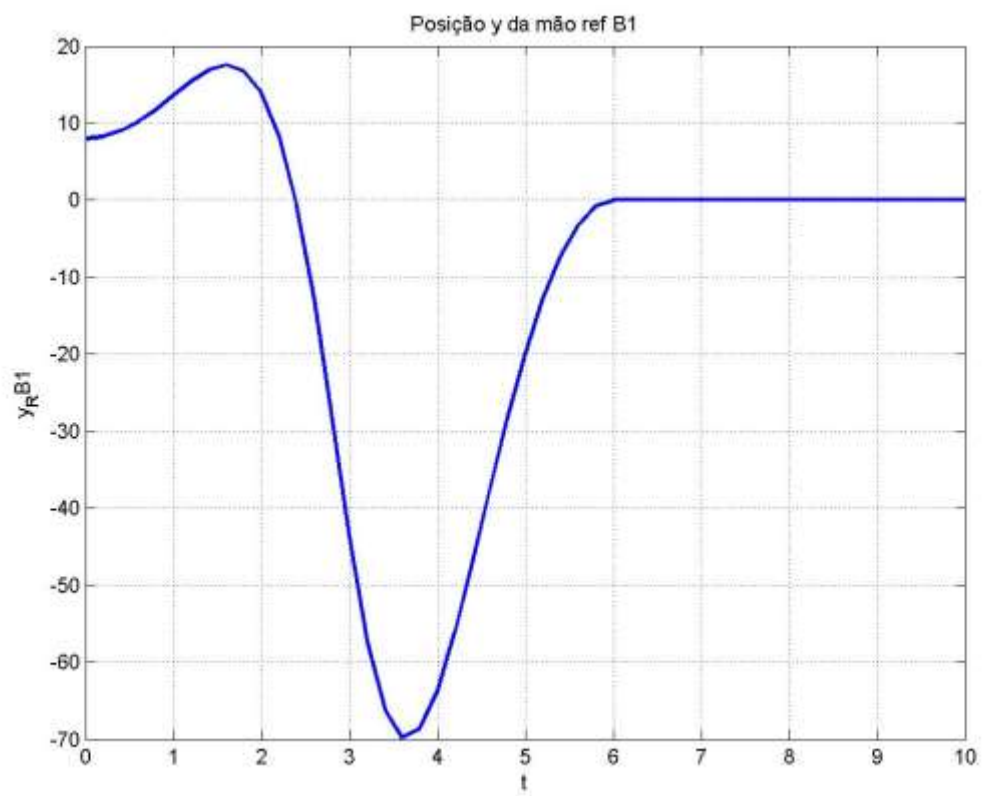
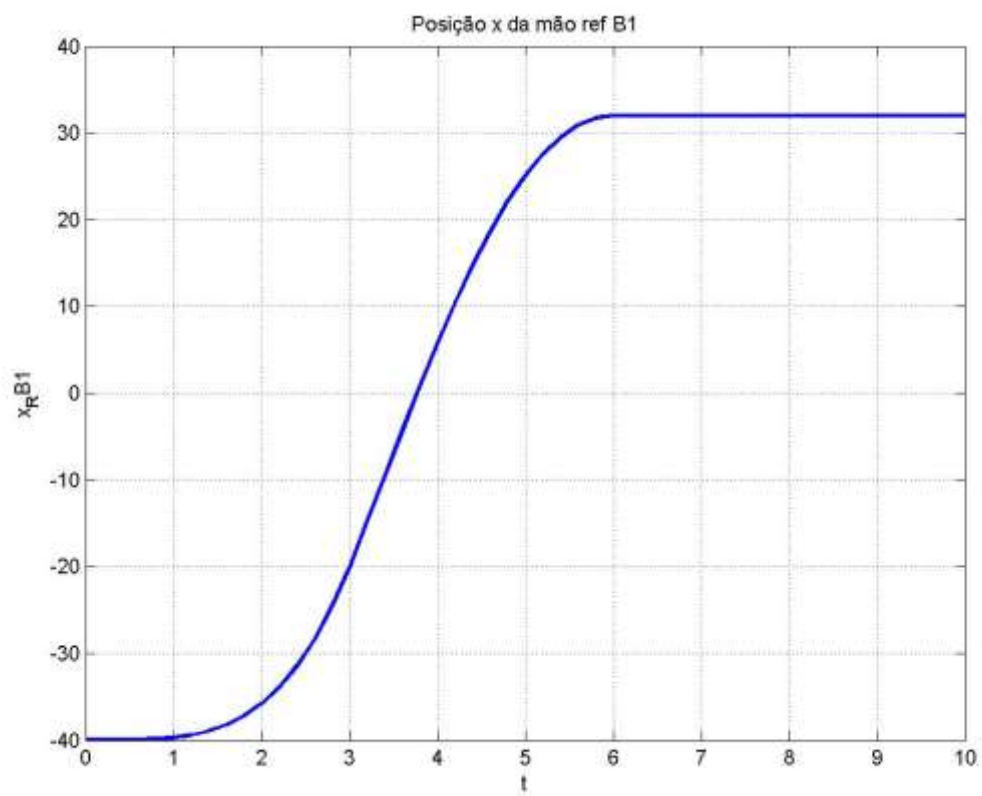
1.1. Posição x, y e z da mão com referencial em B1

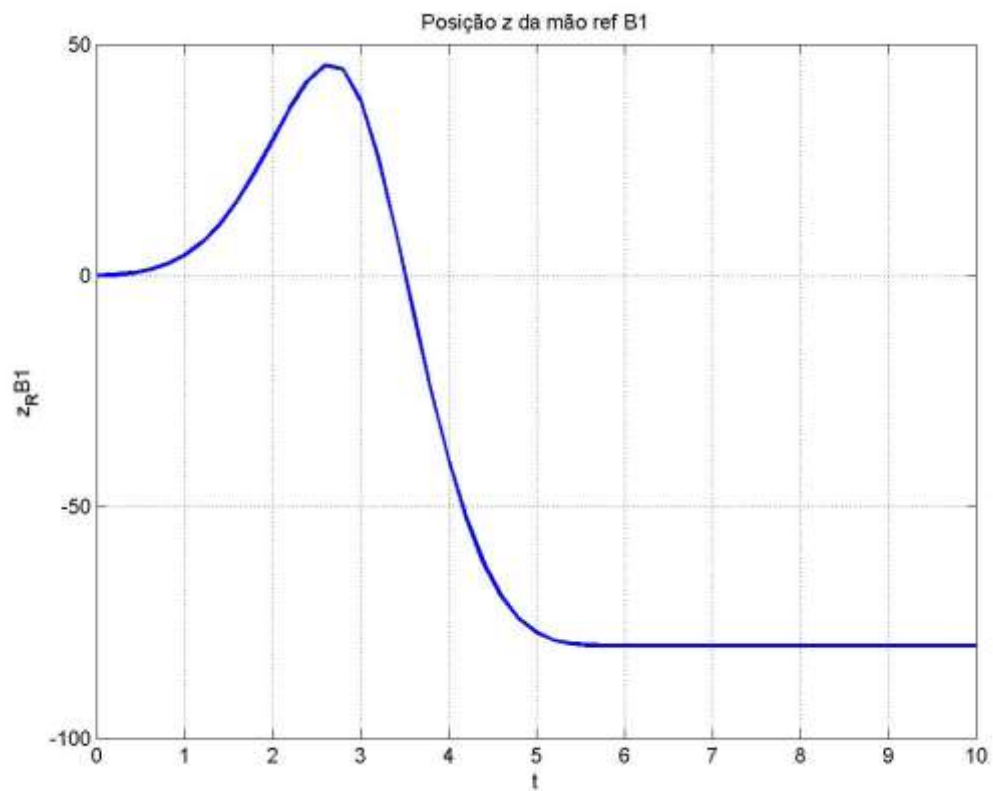
a. Configuração 1 cinemática Direta



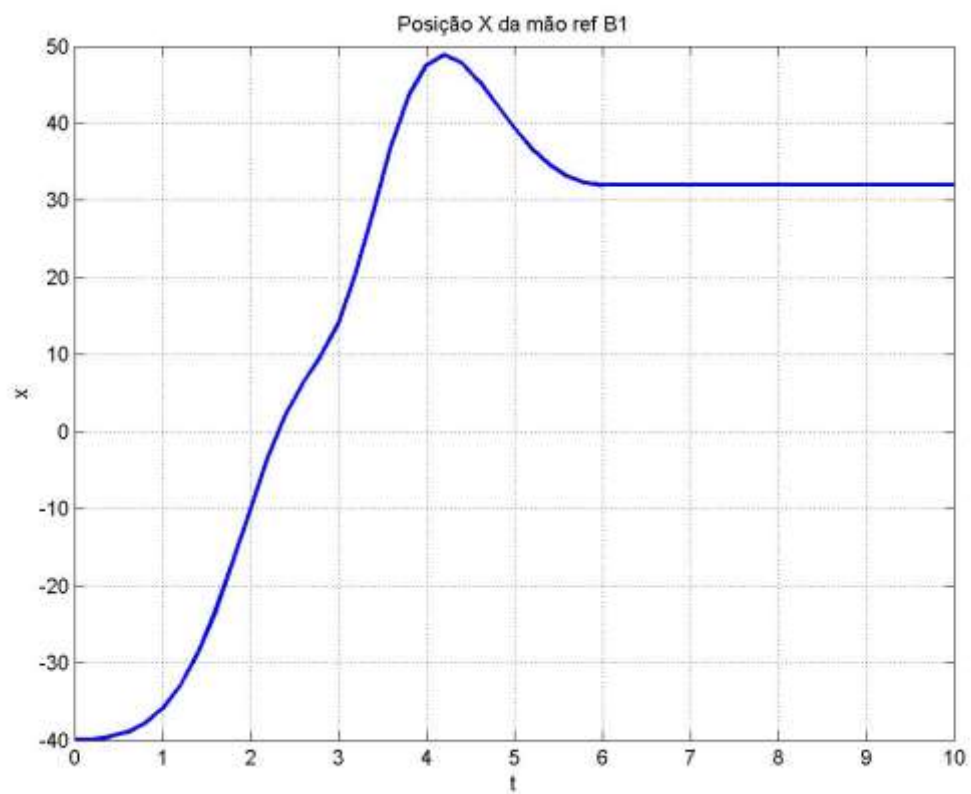


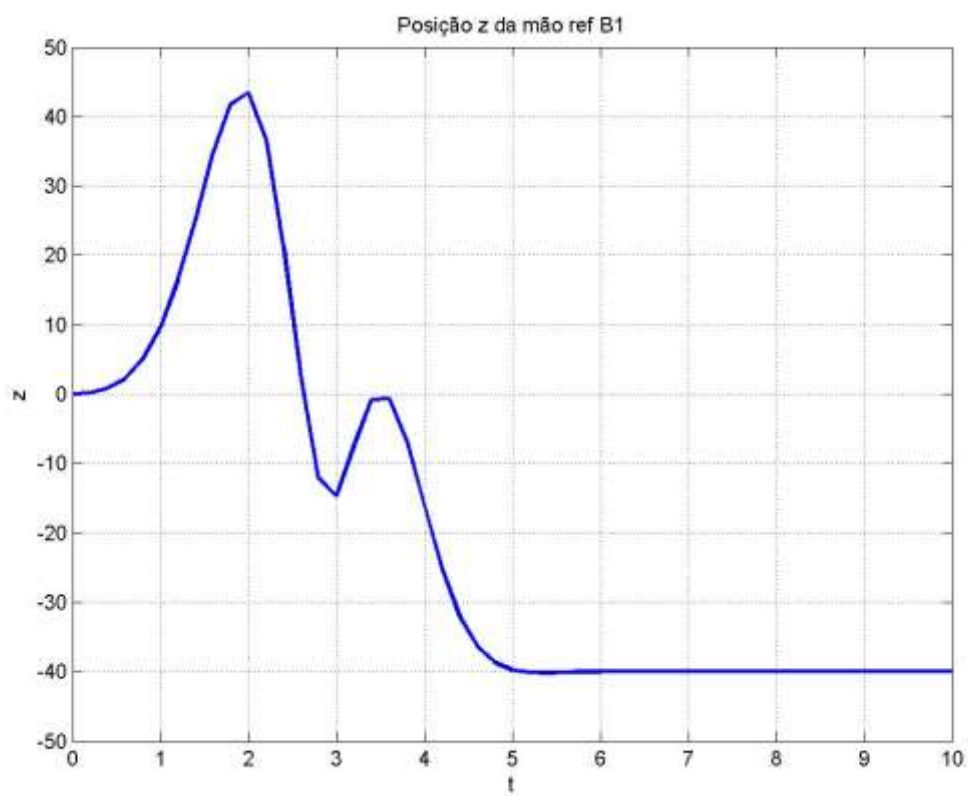
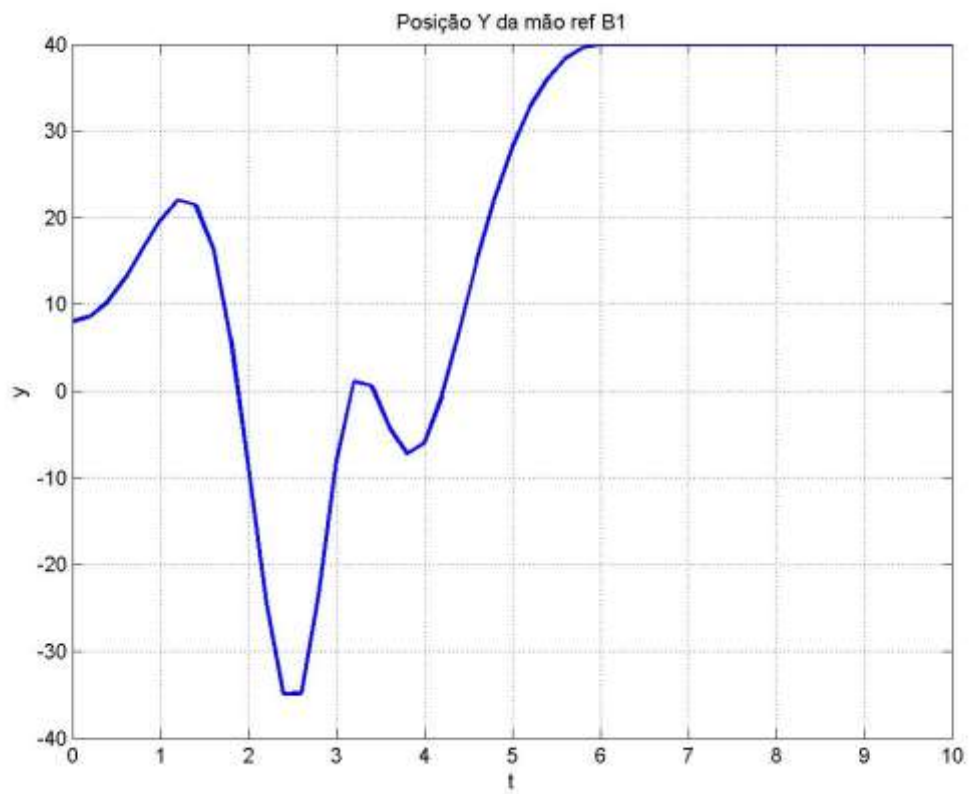
b. Configuração 1 cinemática Diferencial



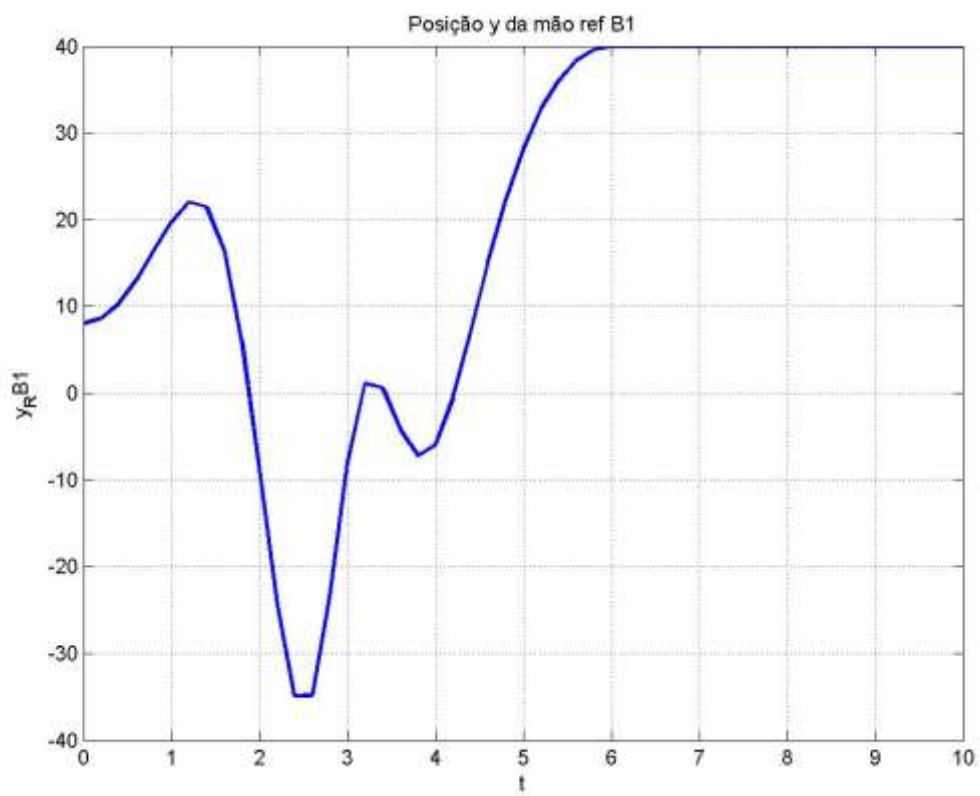
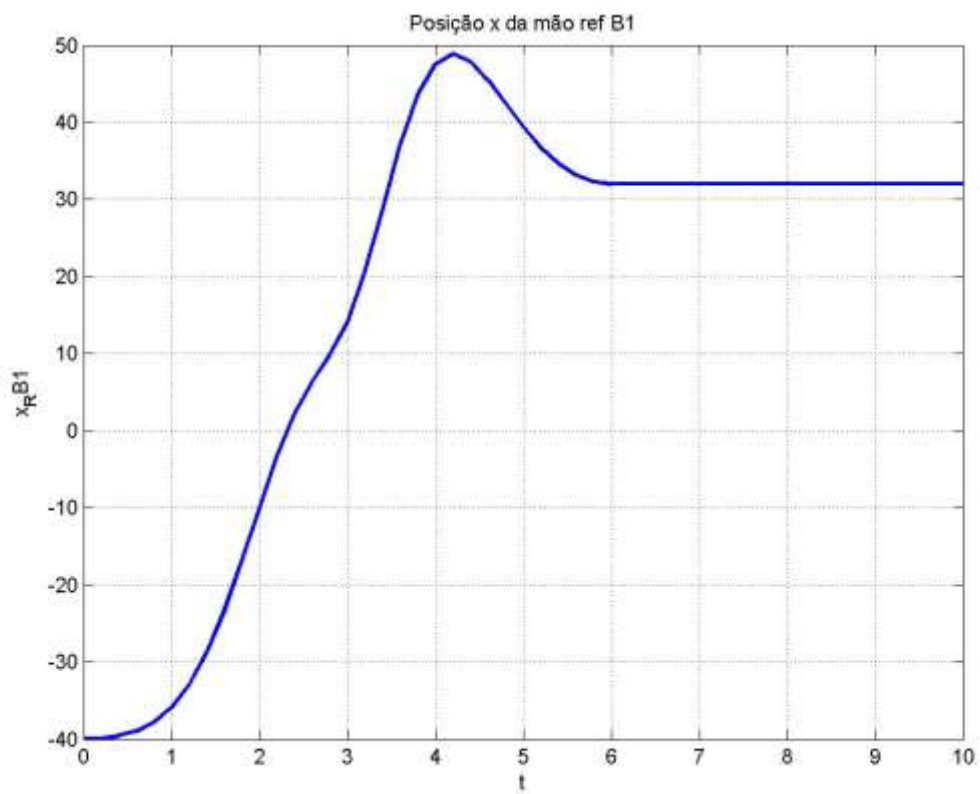


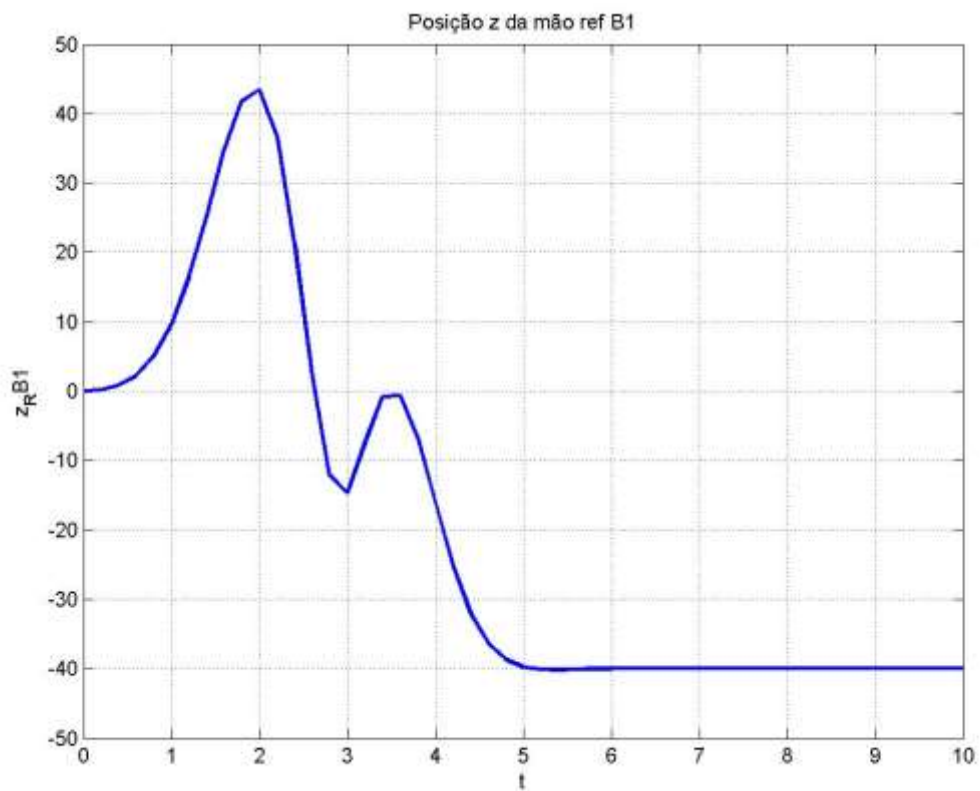
c. Configuração 2 cinemática Direta



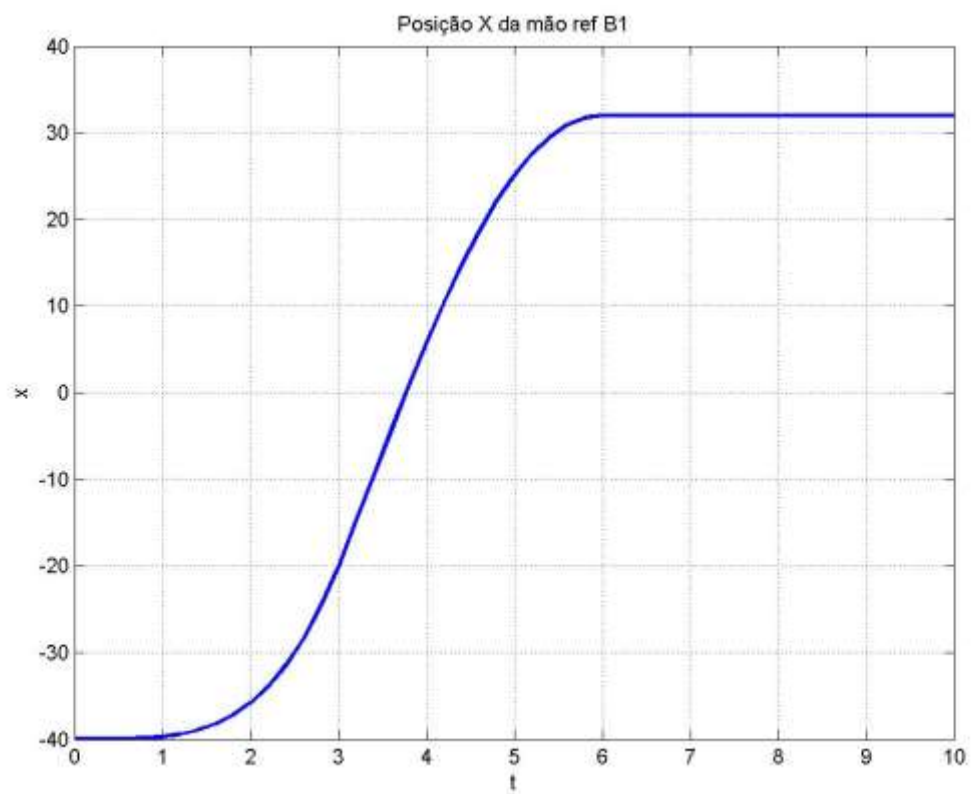


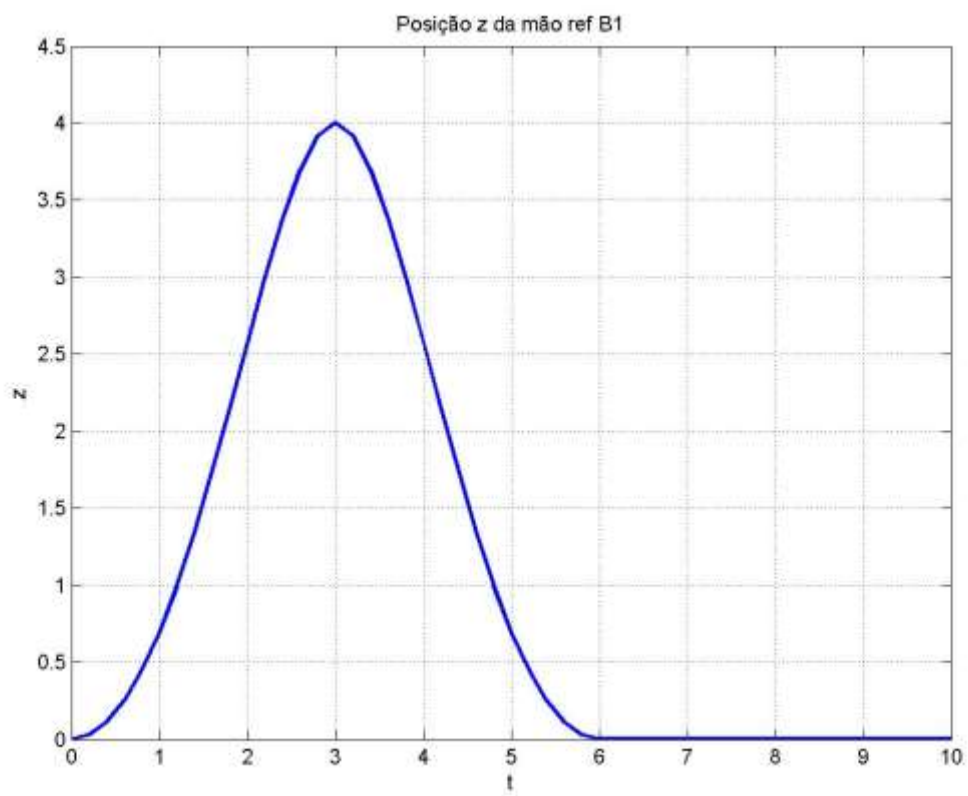
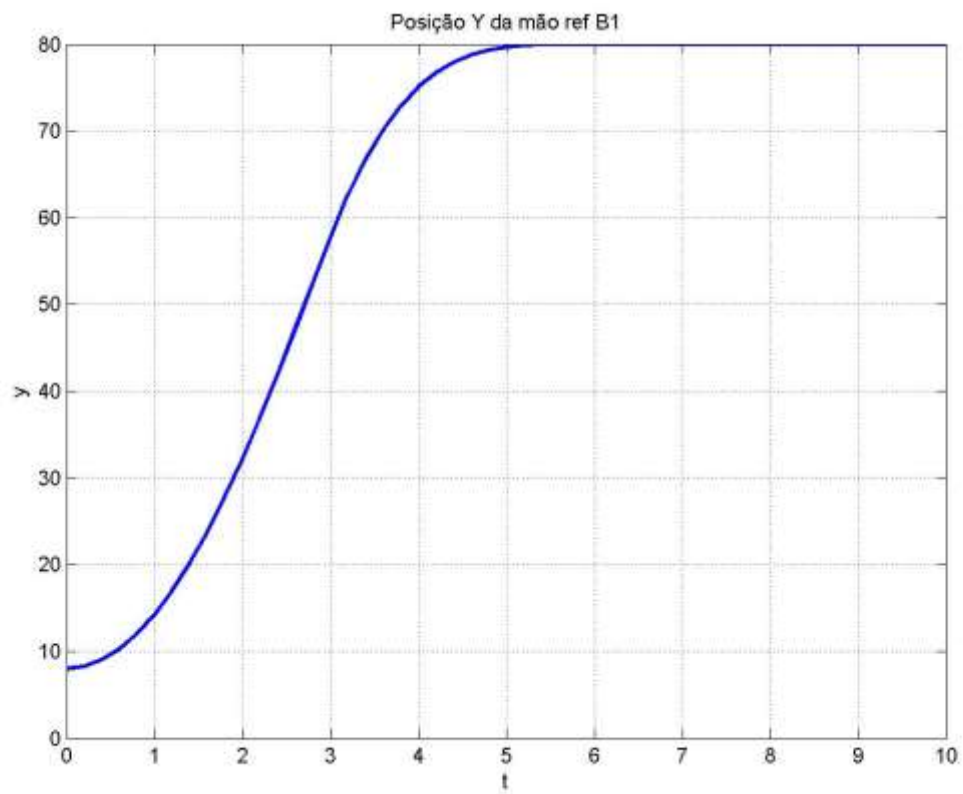
d. Configuração 2 cinemática Diferencial



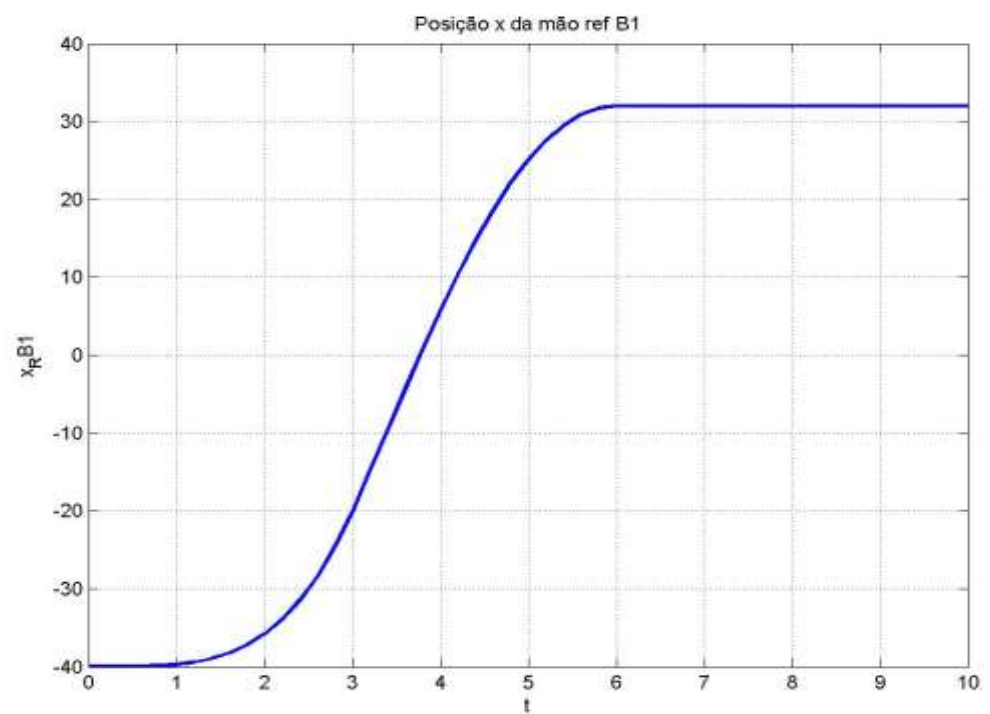
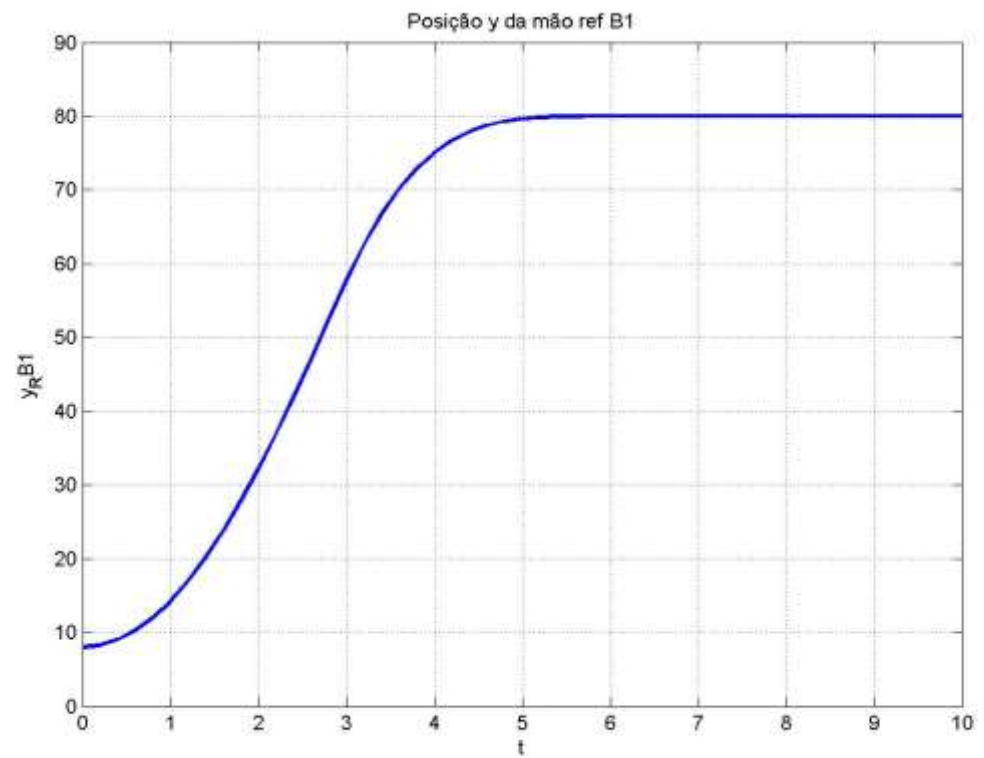


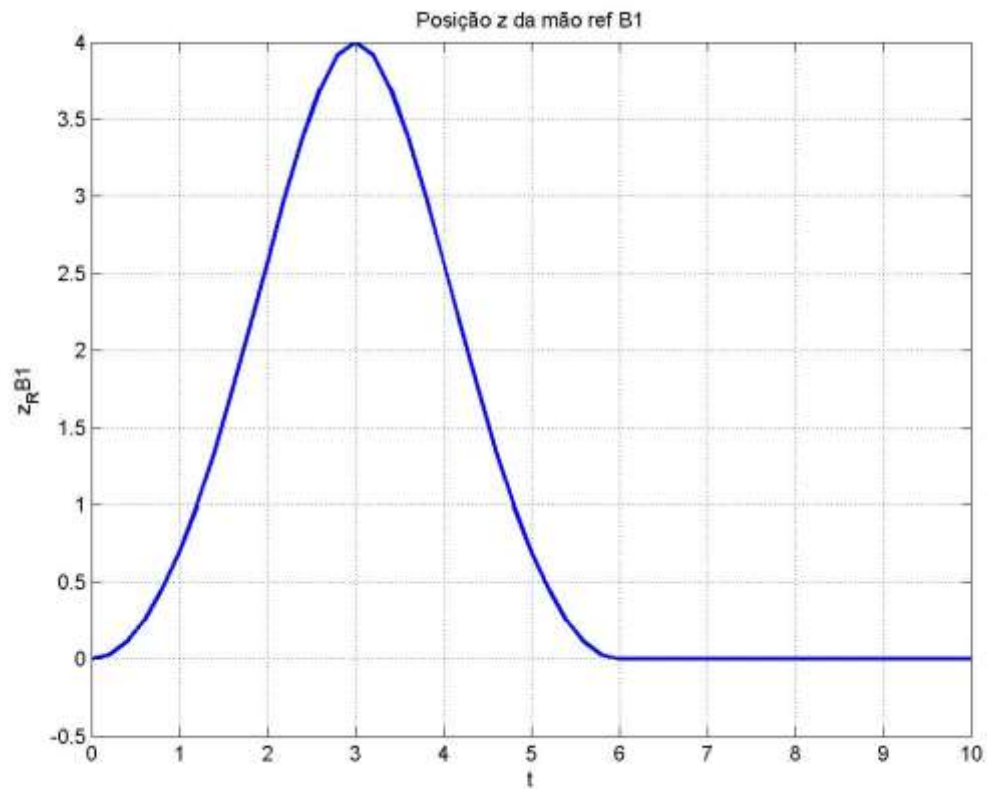
e. Configuração 3 Cinemática Direta





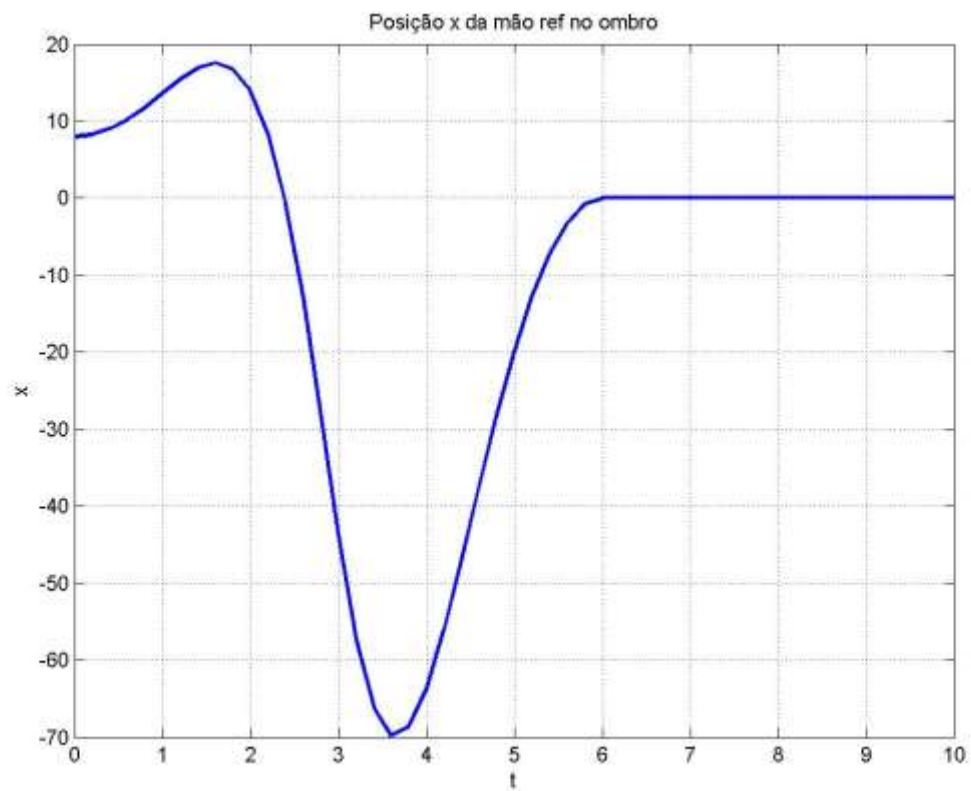
f. Configuração 3 Cinemática Diferencial

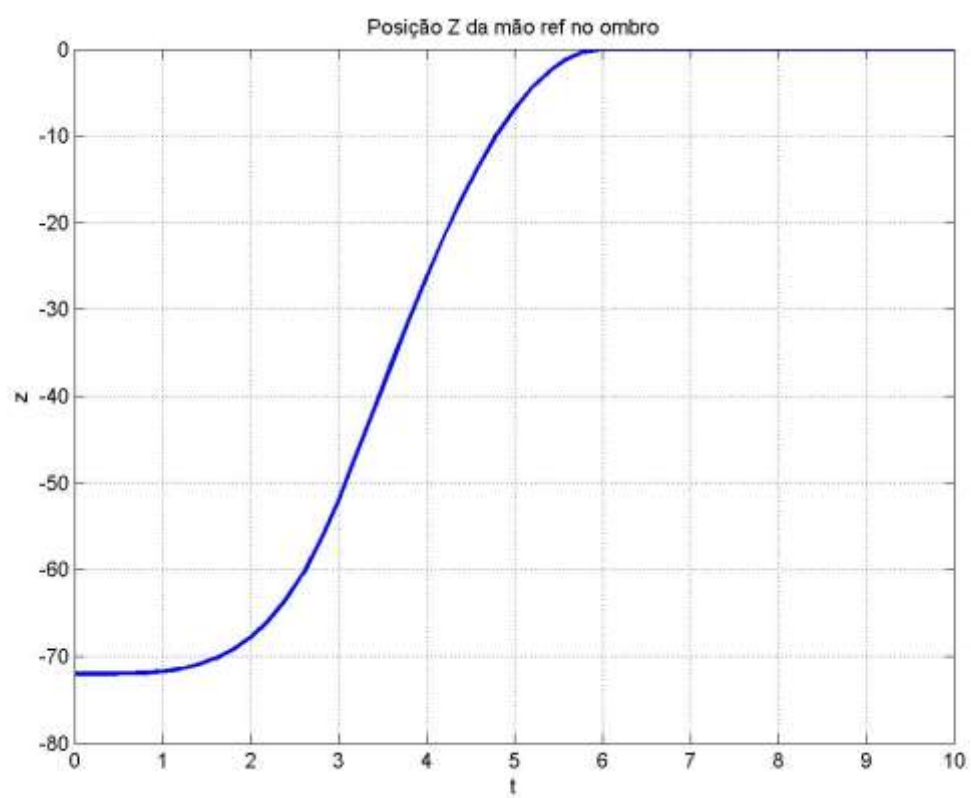
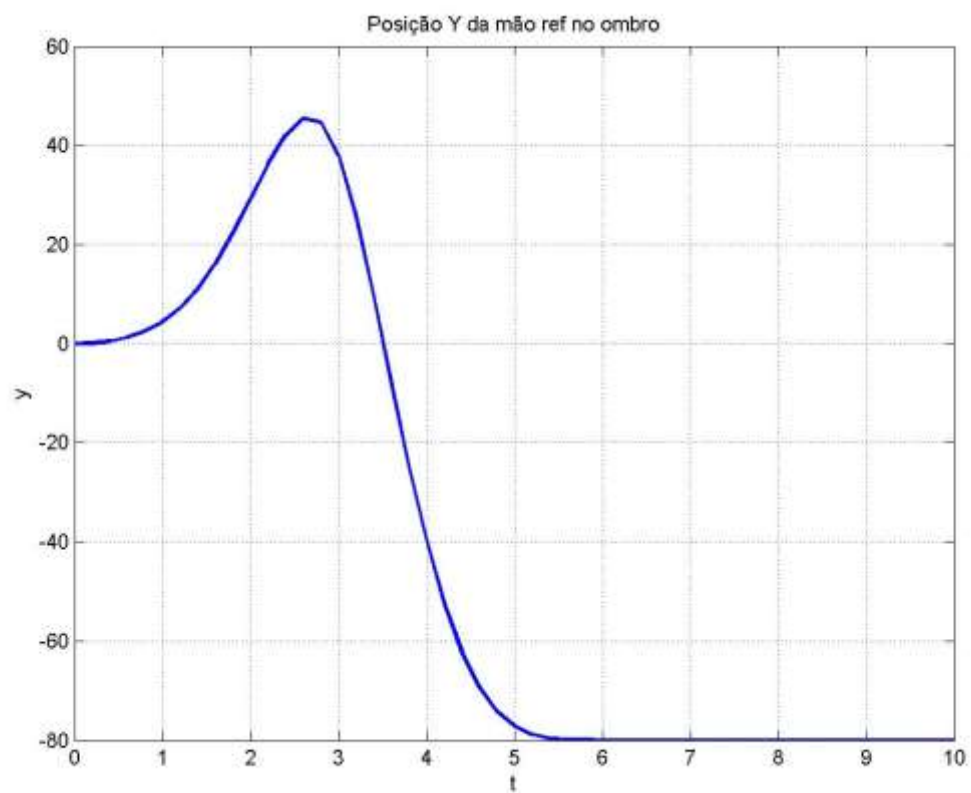




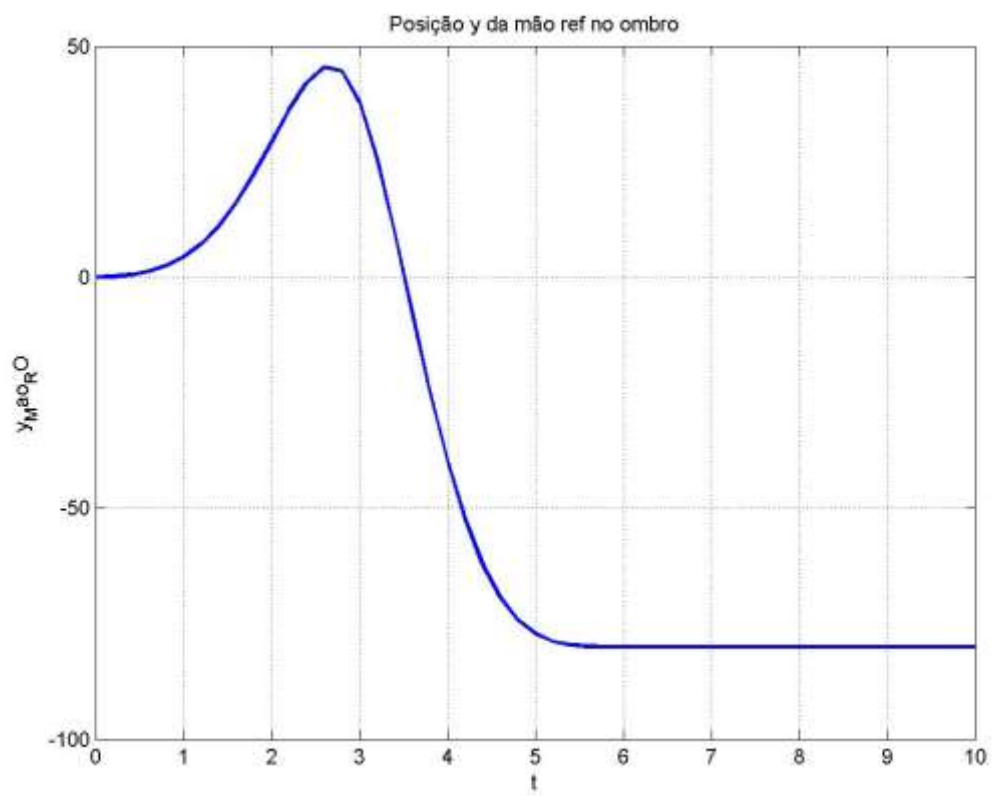
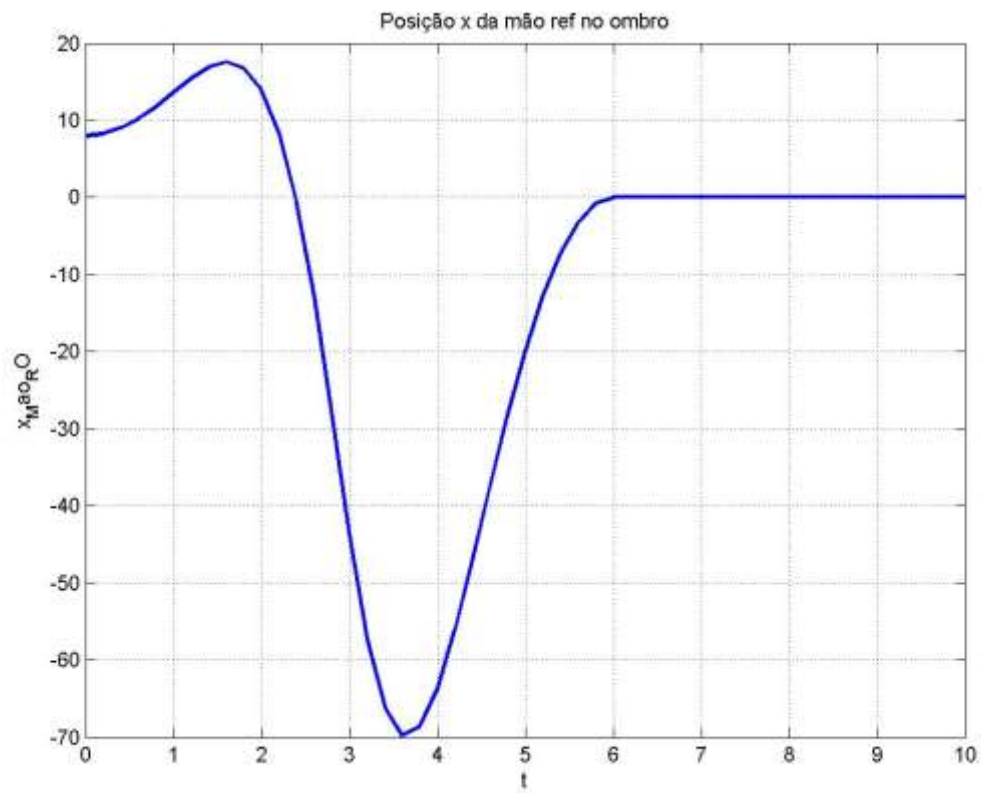
1.2. Posição x, y, z da mão com referencial no Ombro

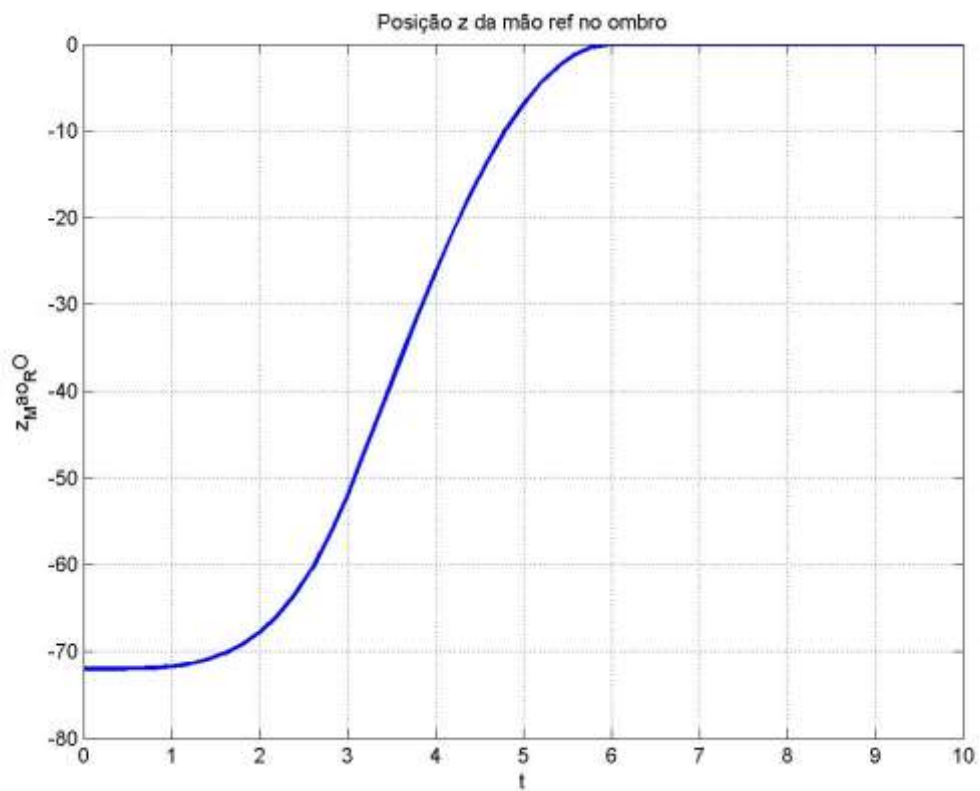
a. Configuração 1 cinemática Direta



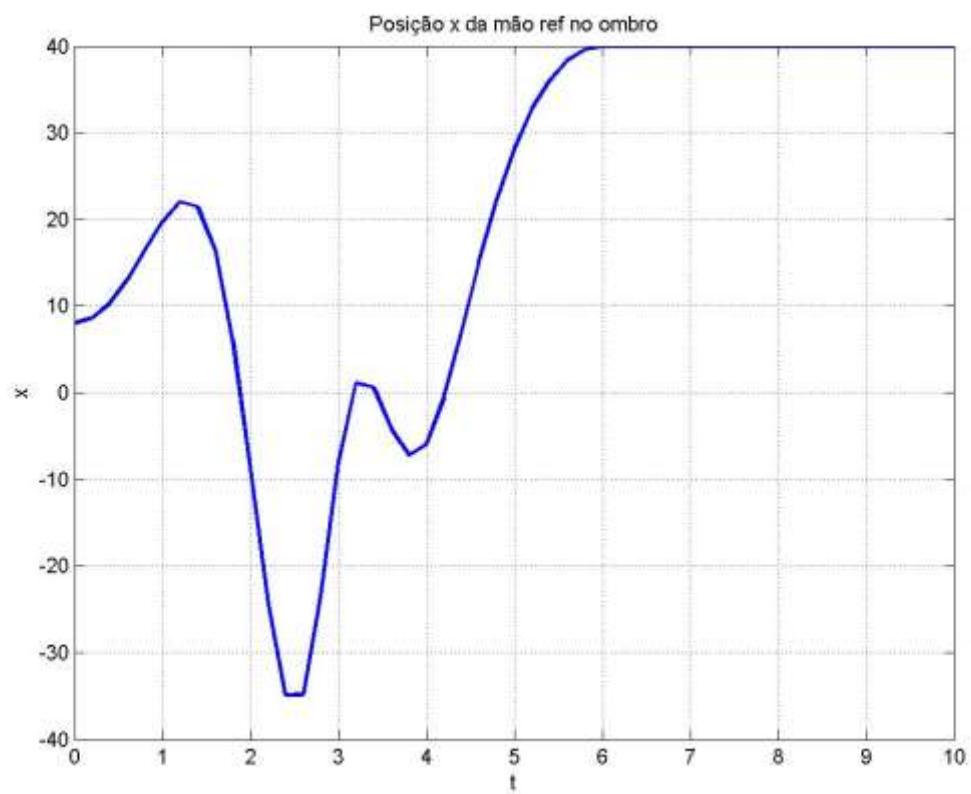


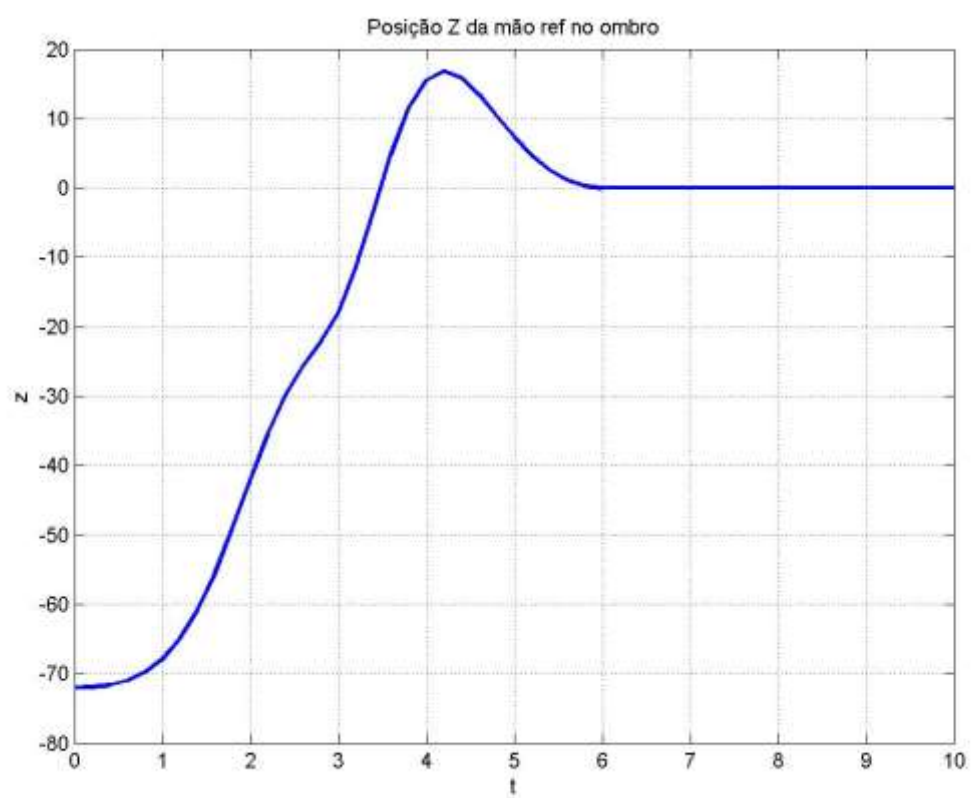
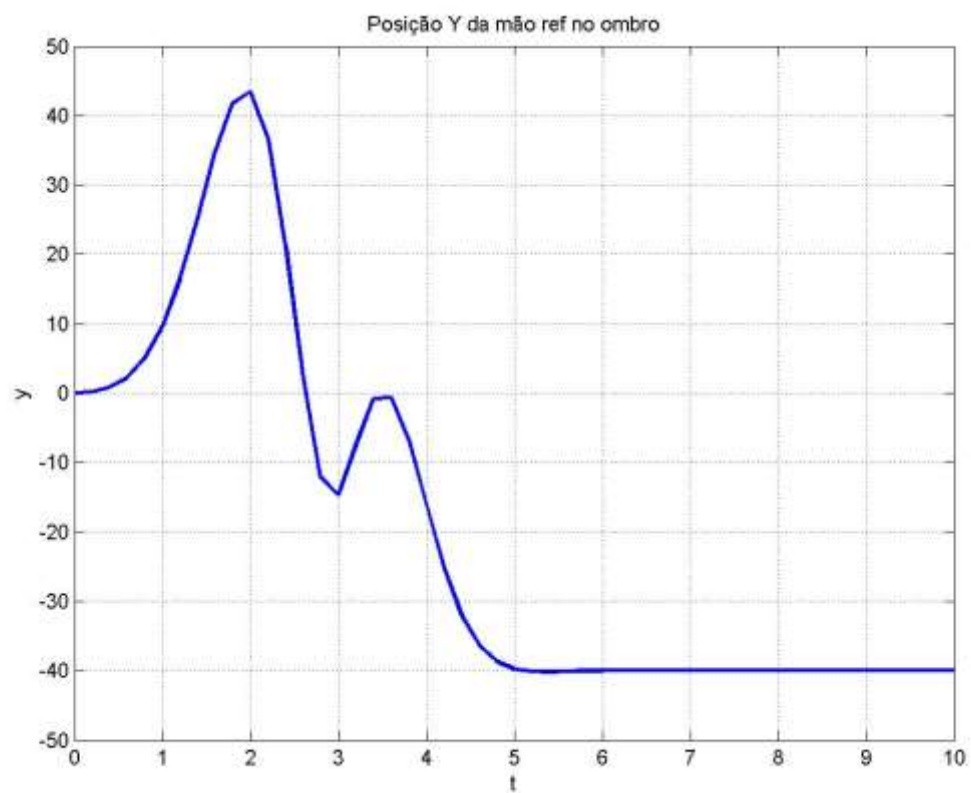
b. Configuração 1 cinemática Diferencial



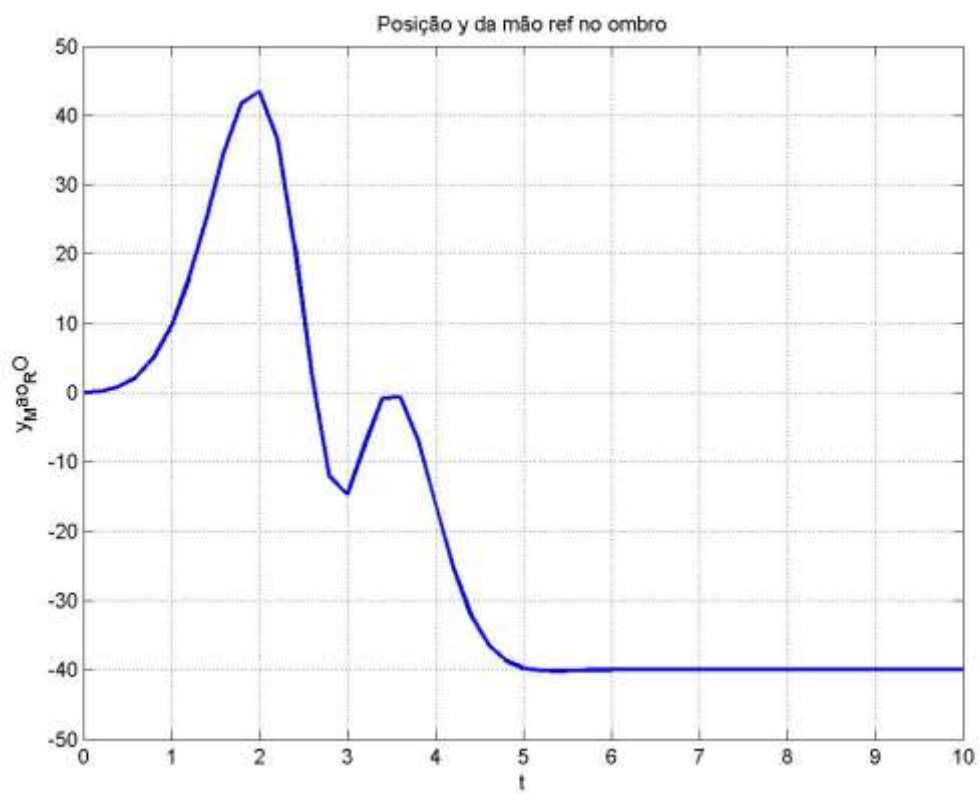
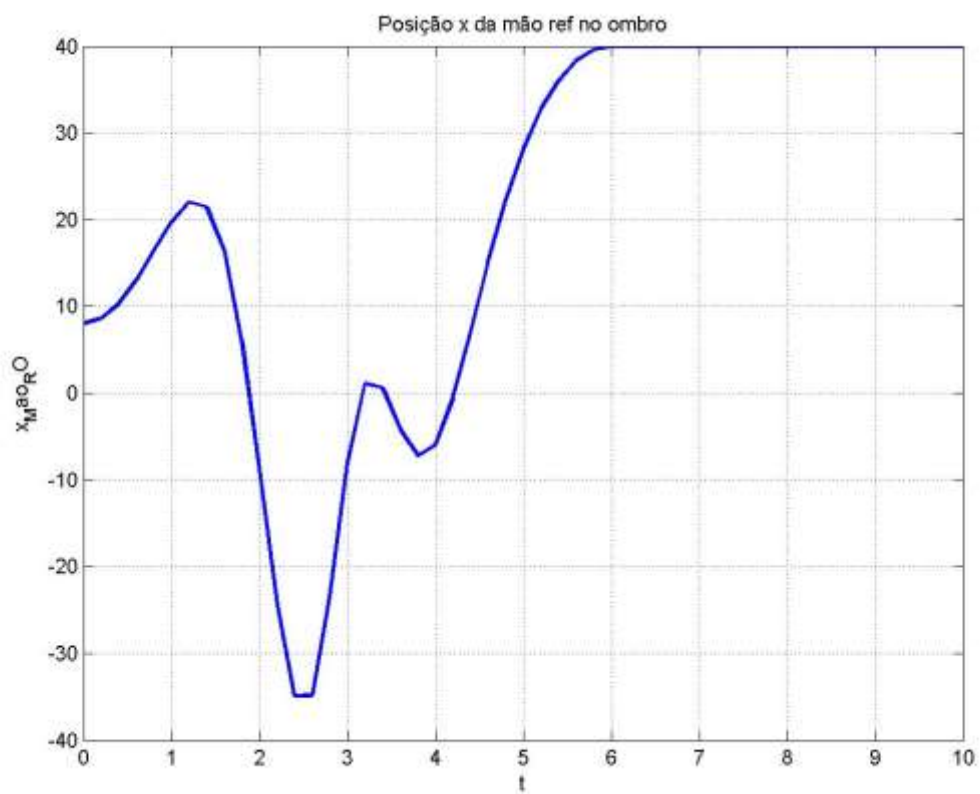


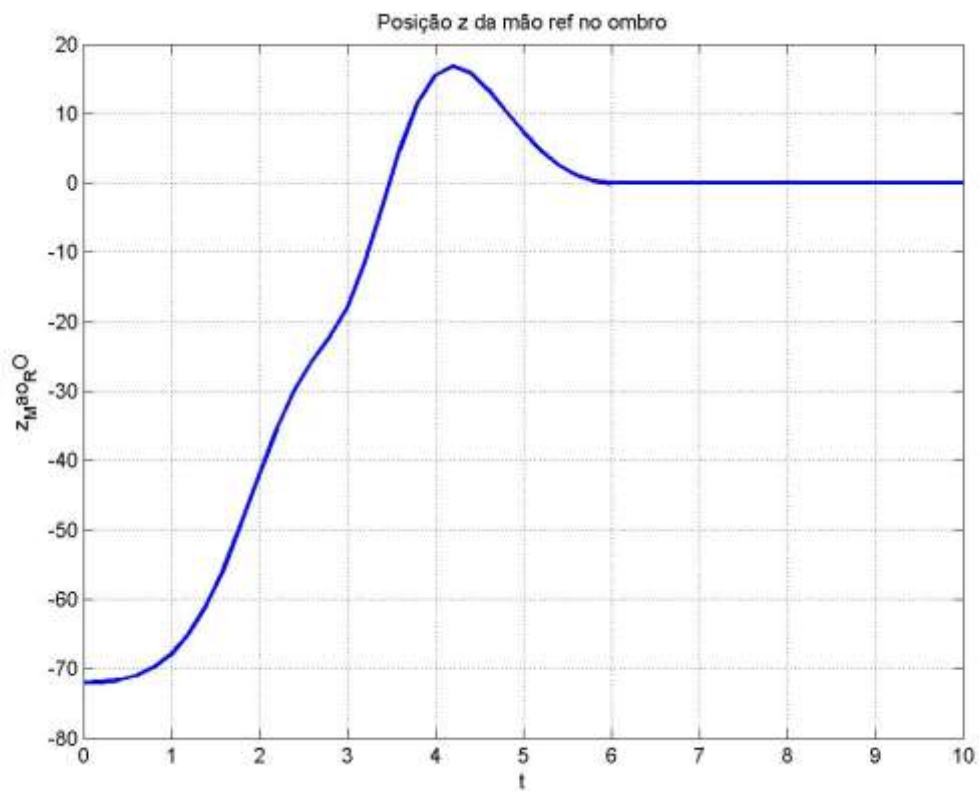
c. Configuração 2 cinemática Direta



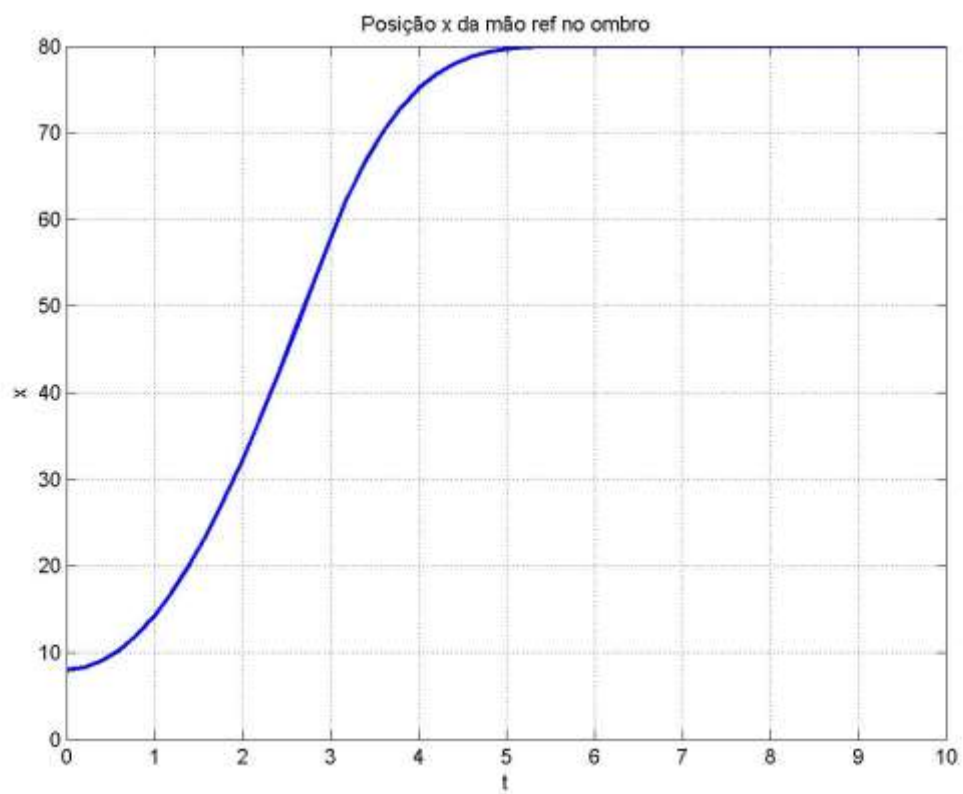


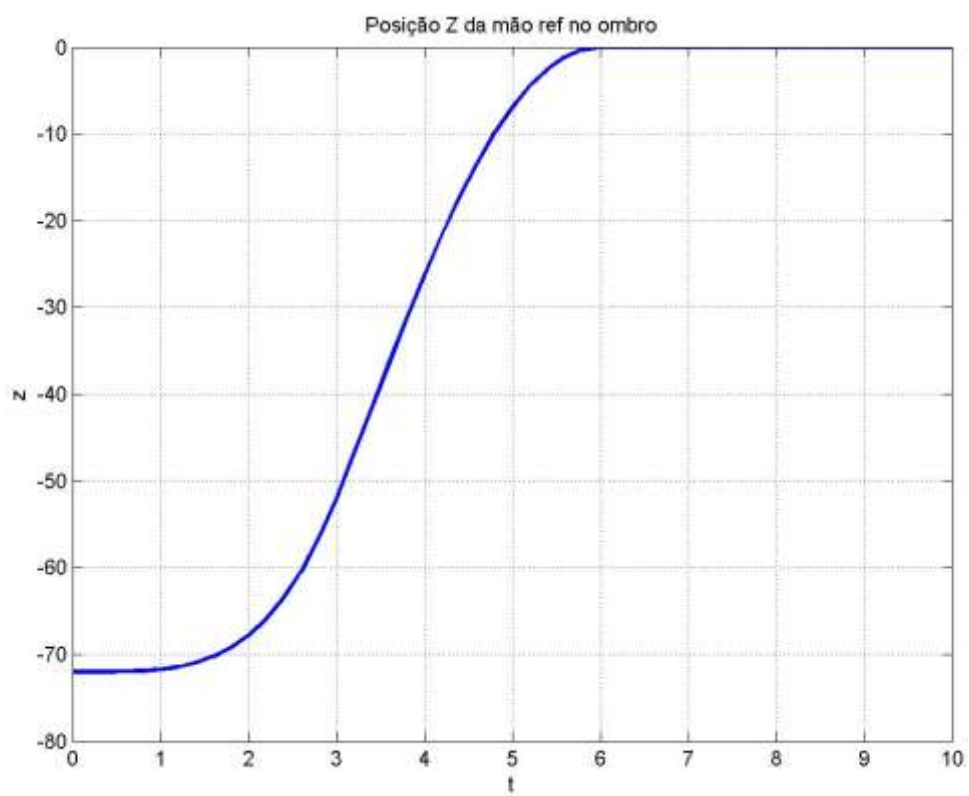
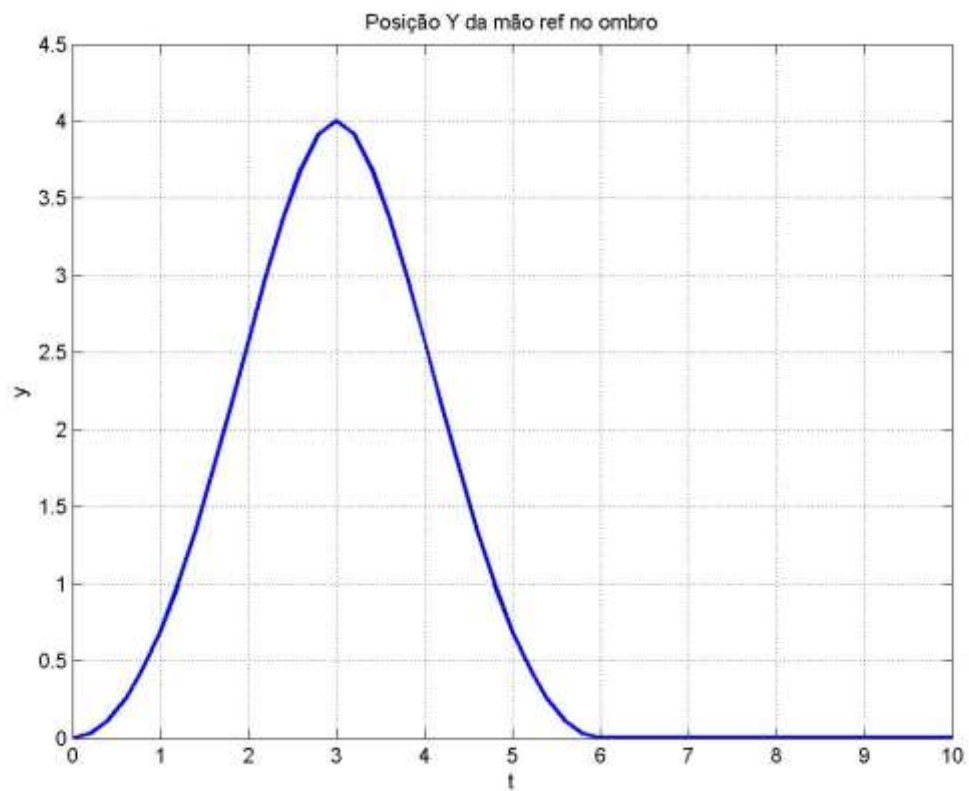
d. Configuração 2 cinemática Diferencial



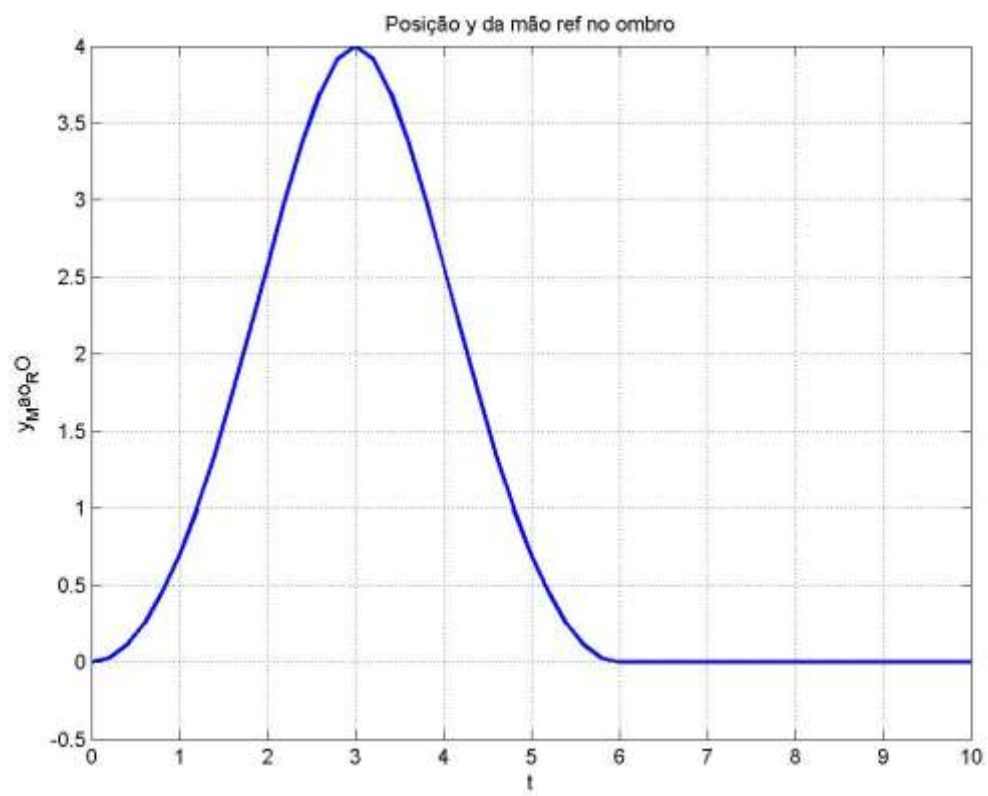
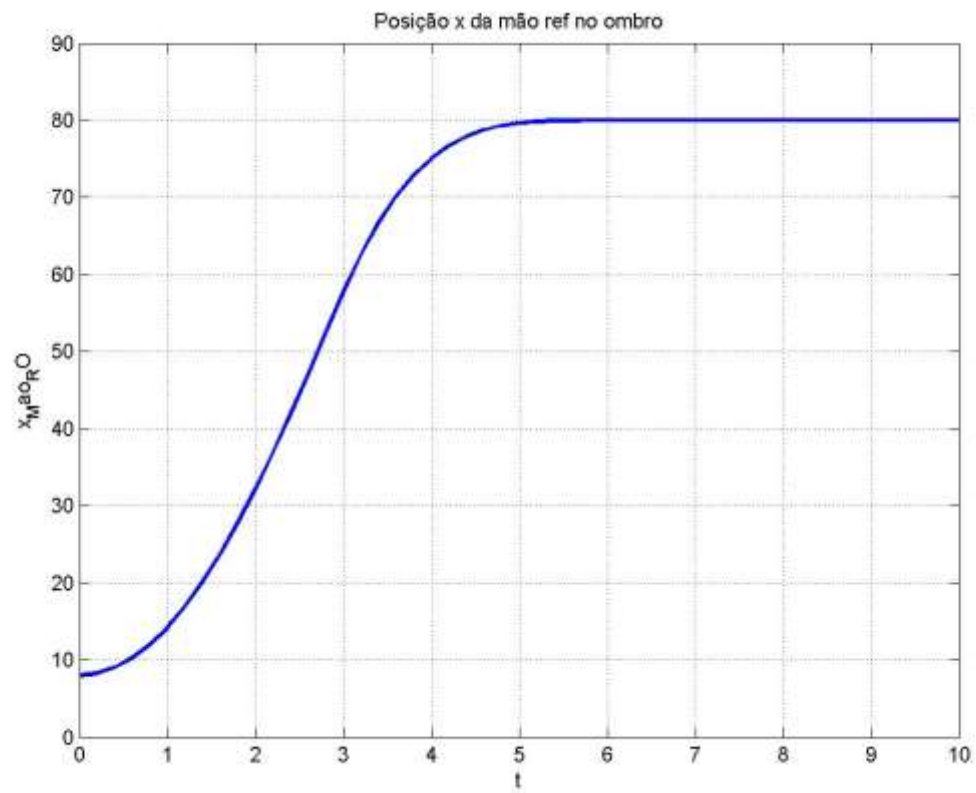


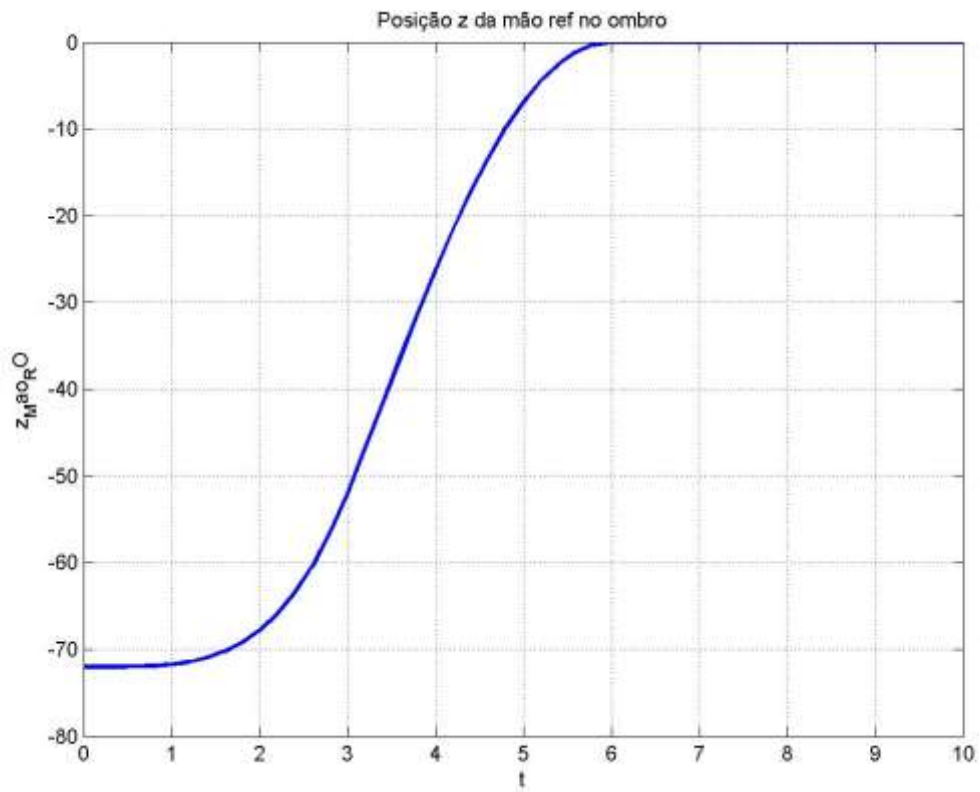
e. Configuração 3 cinemática Direta





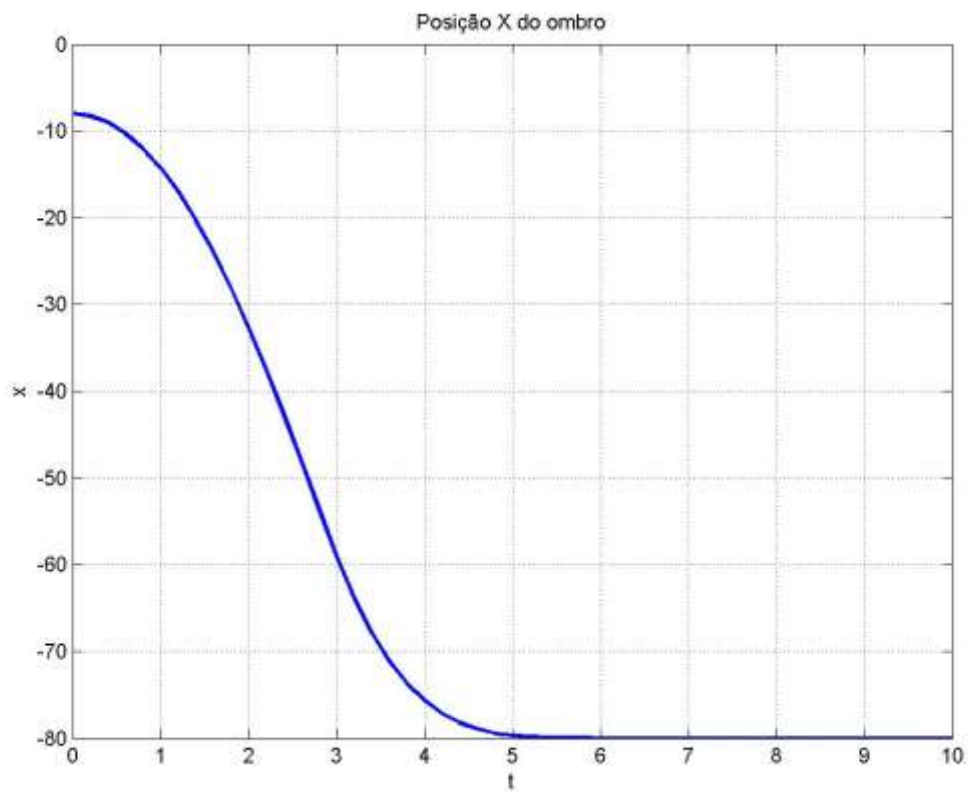
f. Configuração 3 cinemática Diferencial

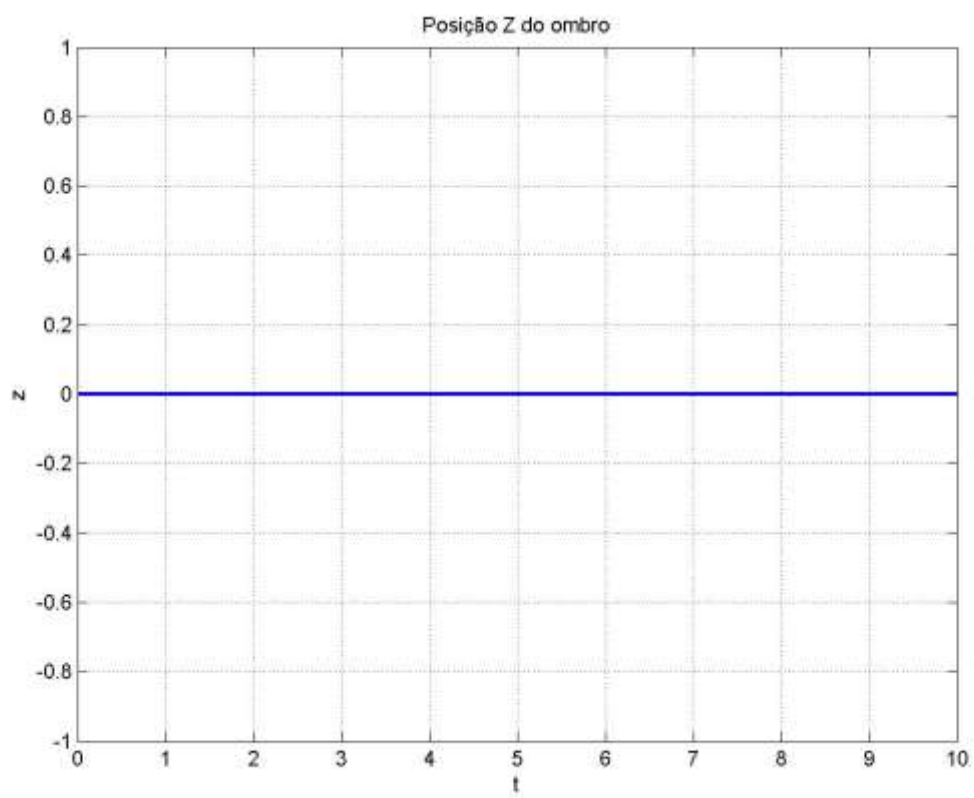
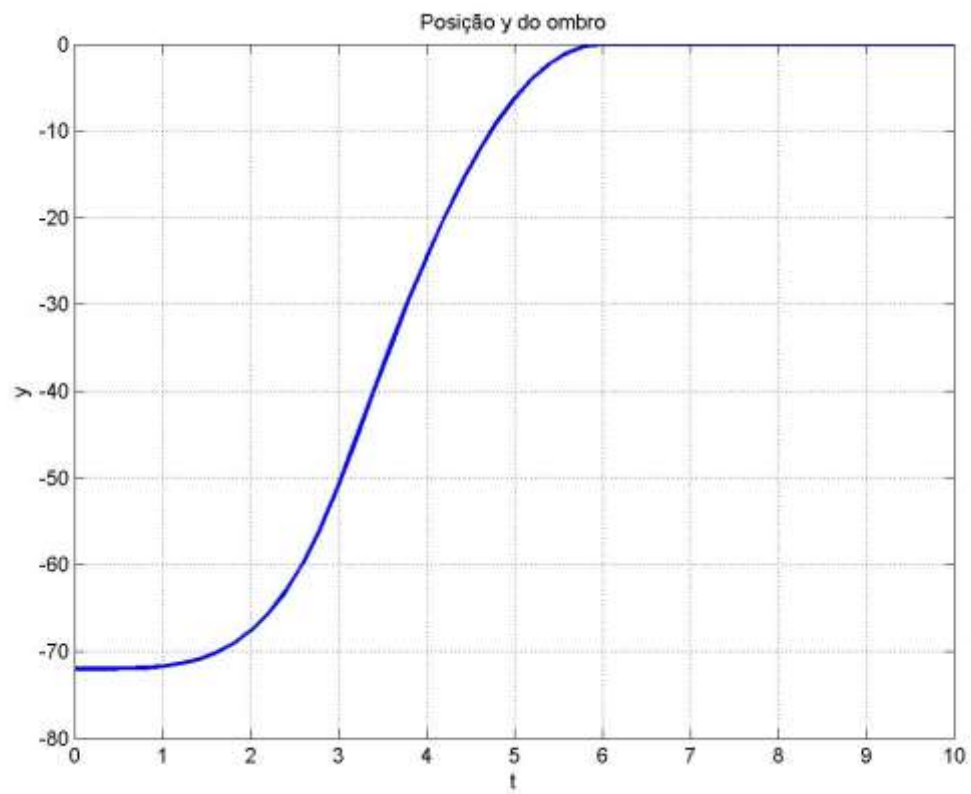




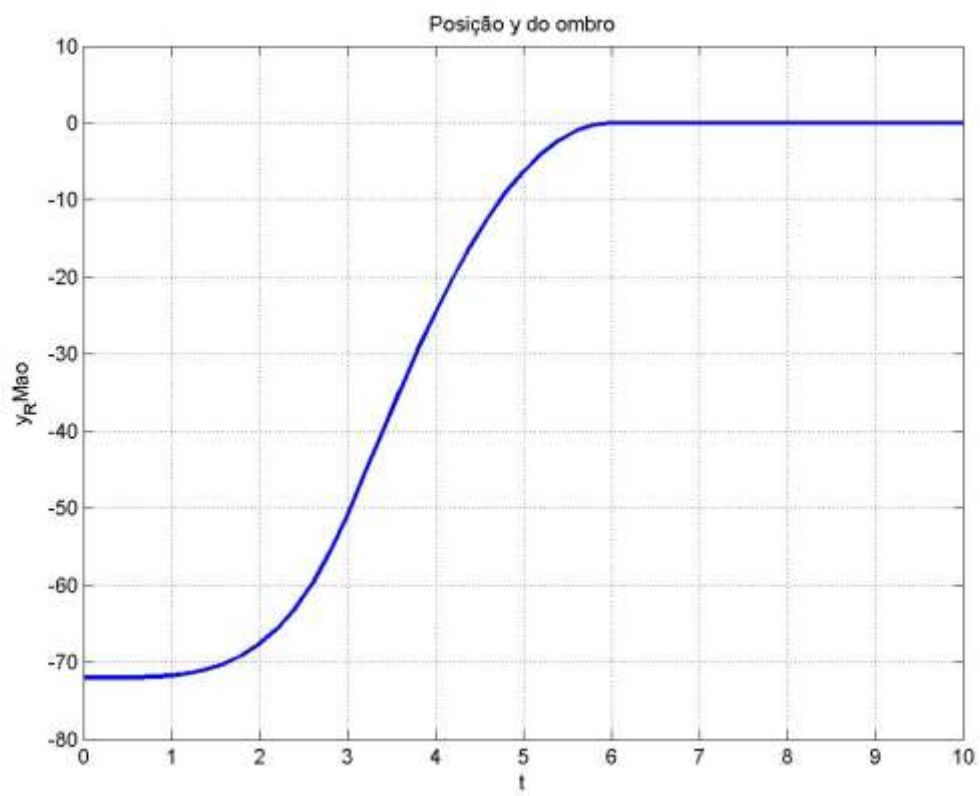
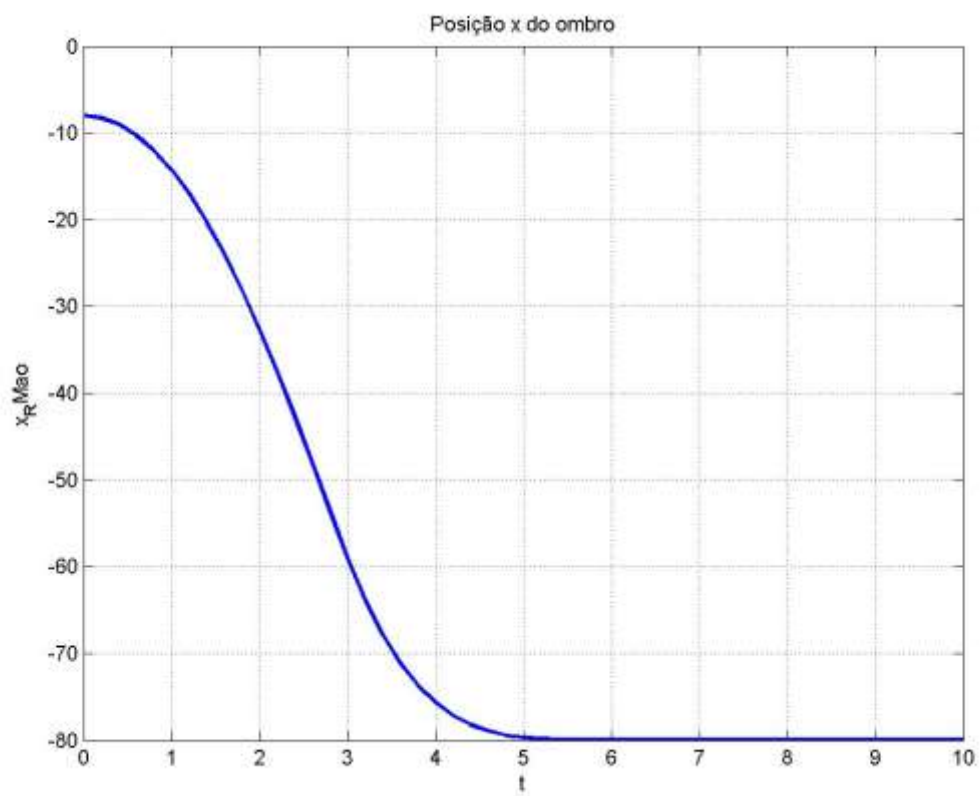
1.3. Posição x, y, z do Ombro com referencial na mão

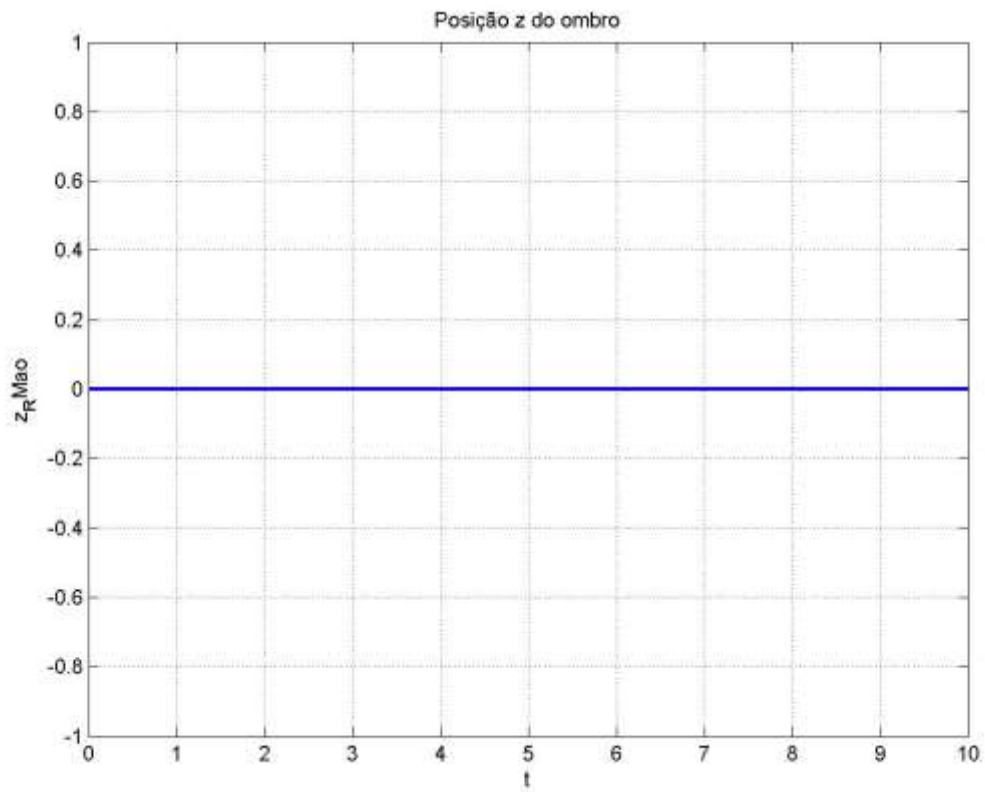
a. Configuração 1 cinemática Direta



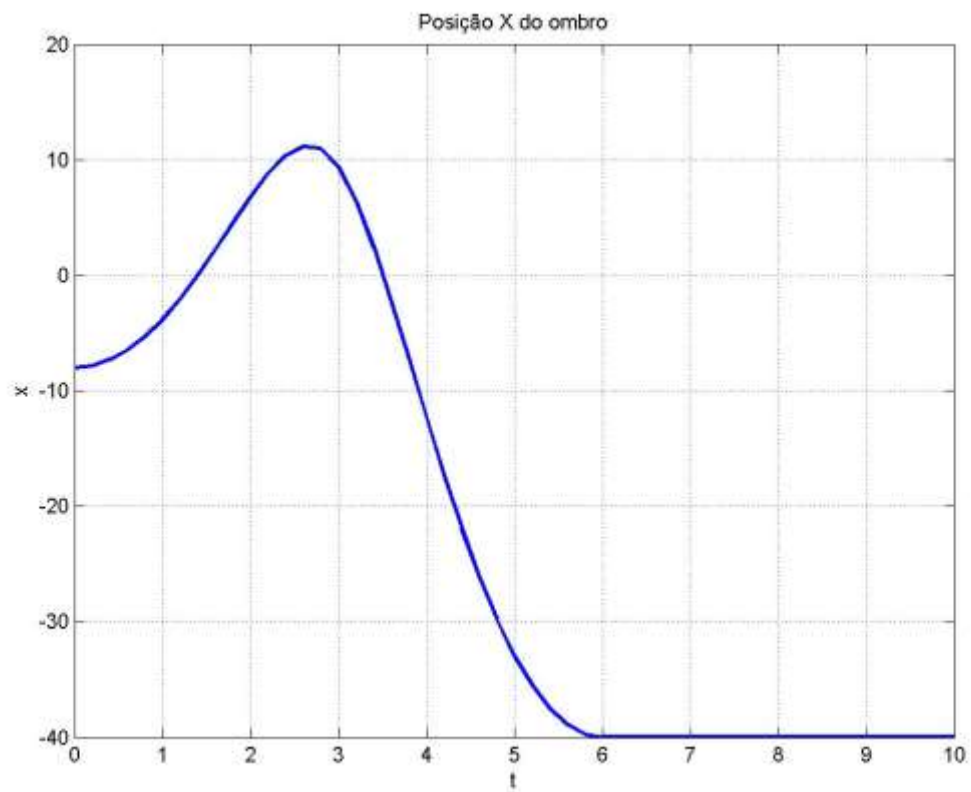


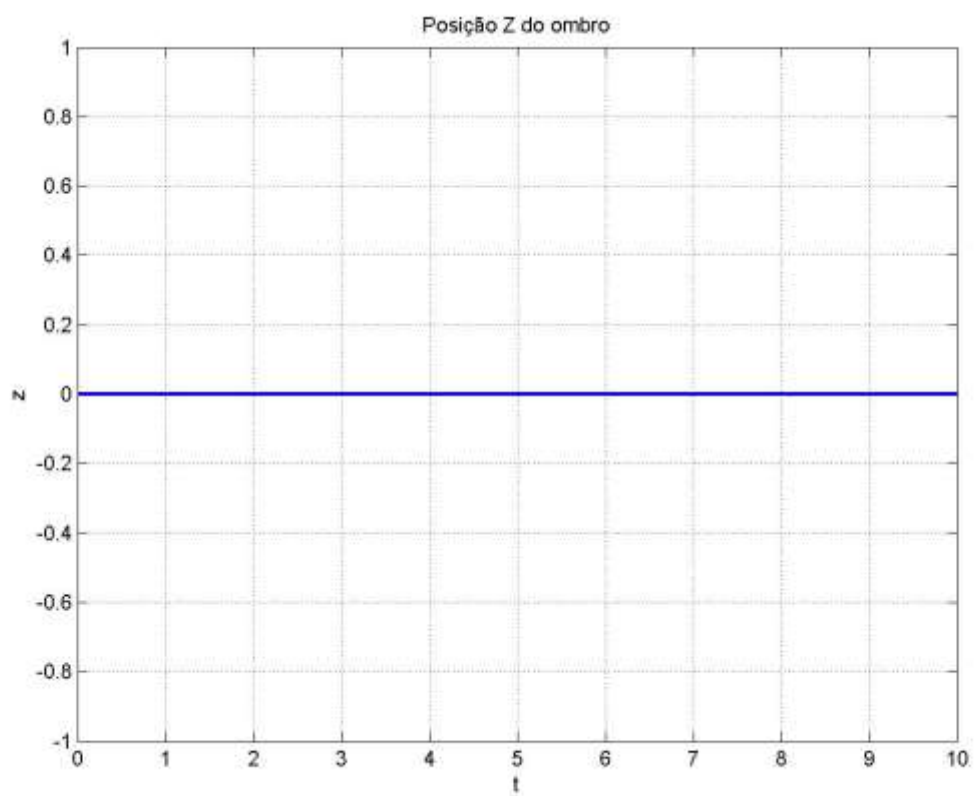
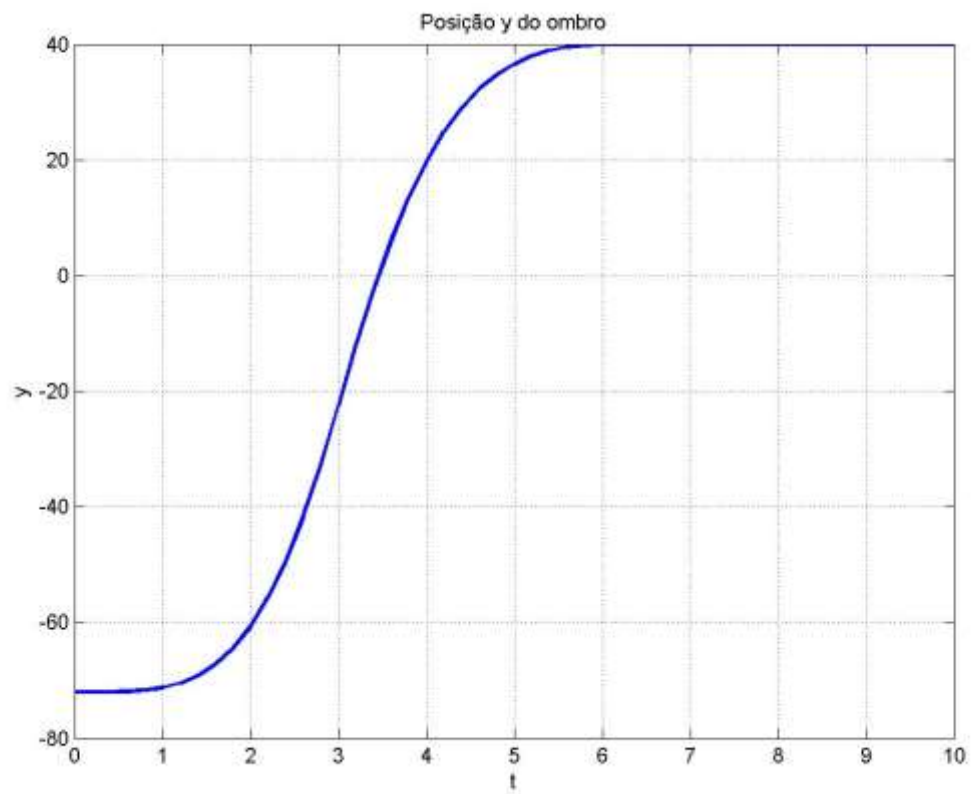
b. Configuração 1 cinemática diferencial



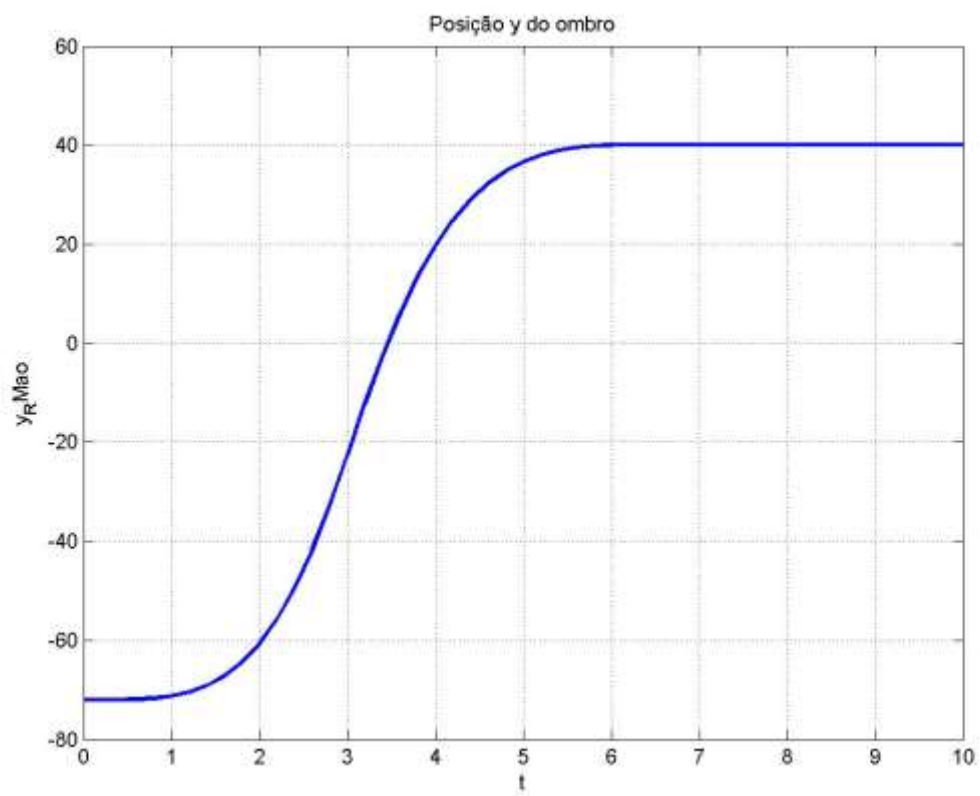
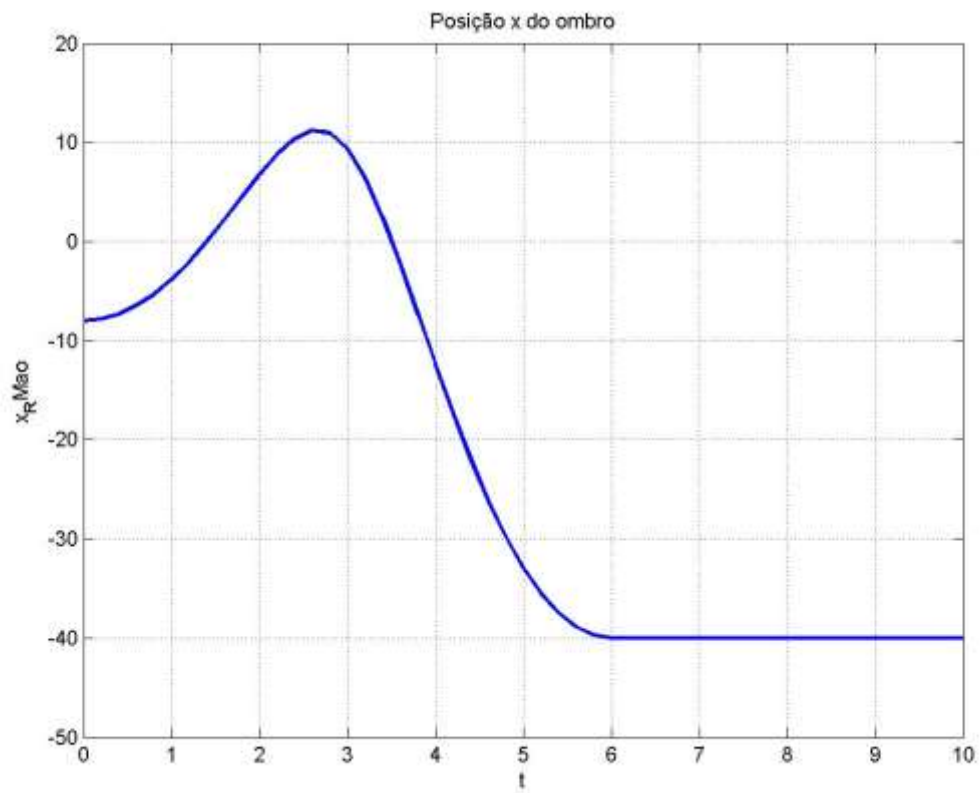


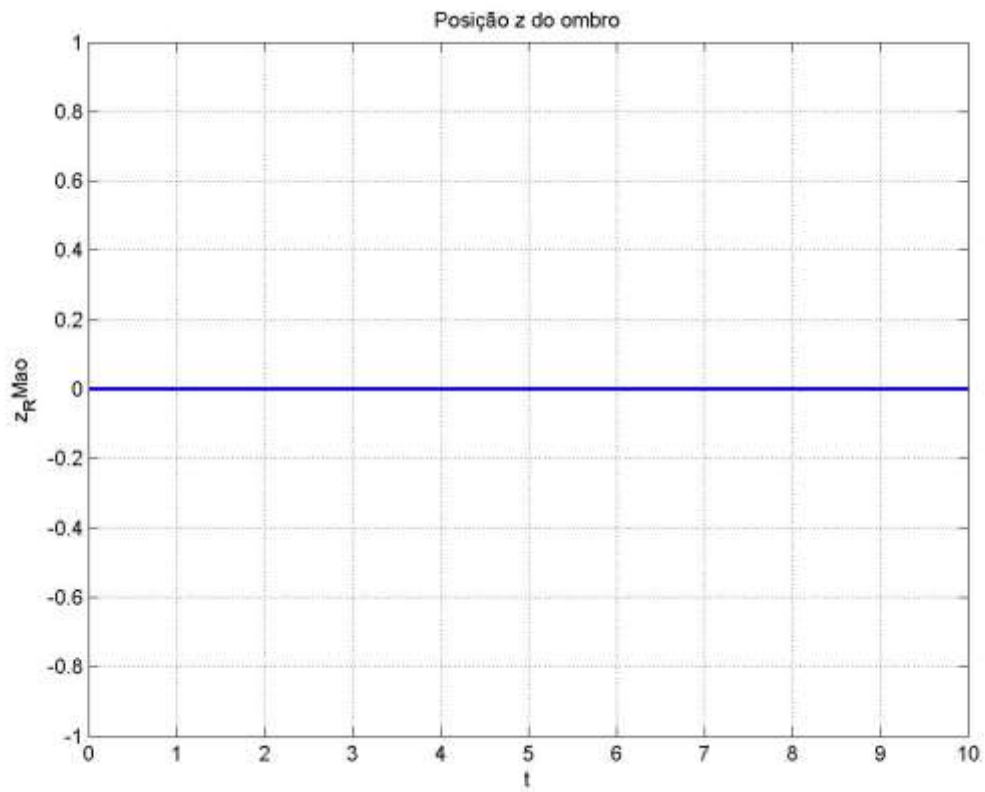
c. Configuração 2 cinemática direta



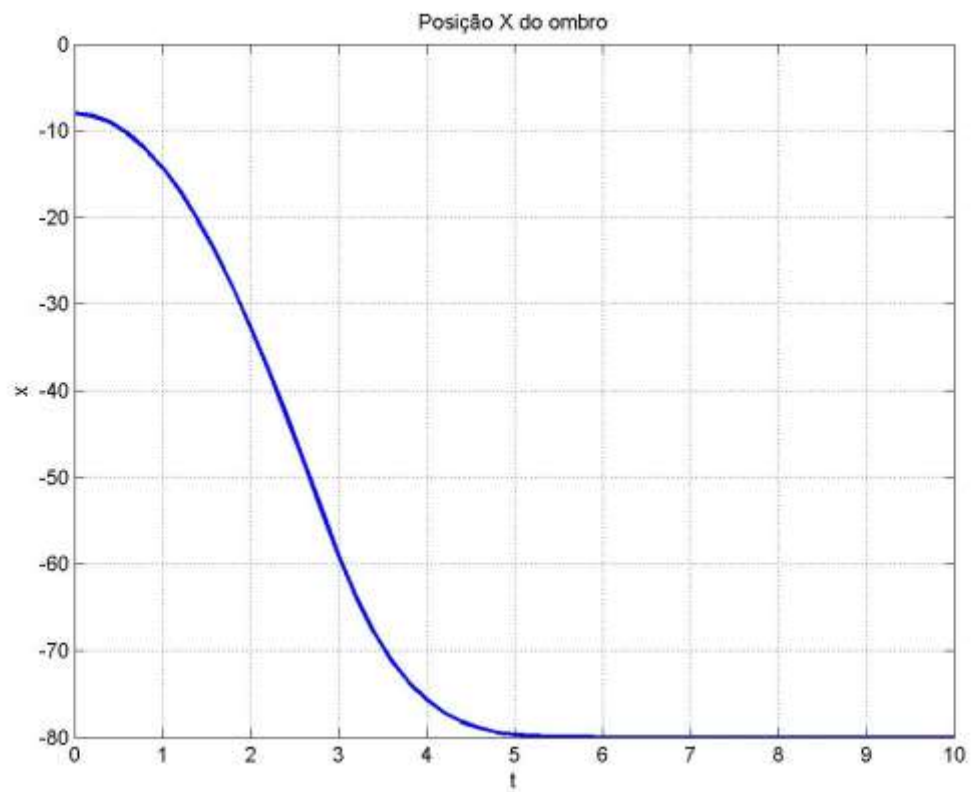


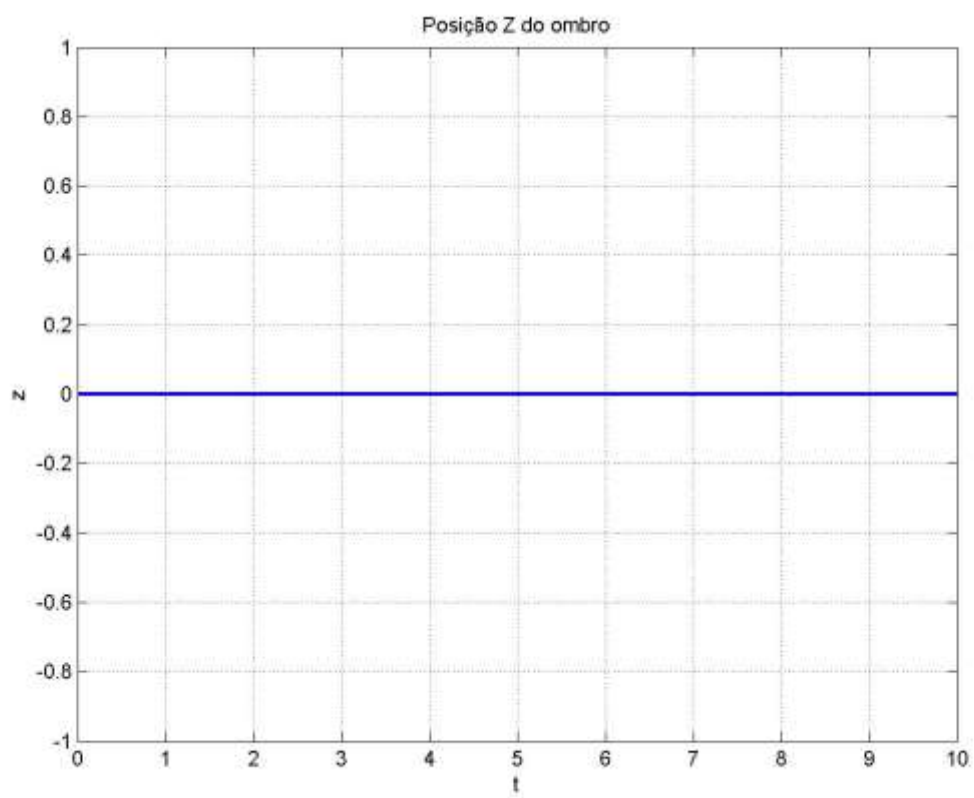
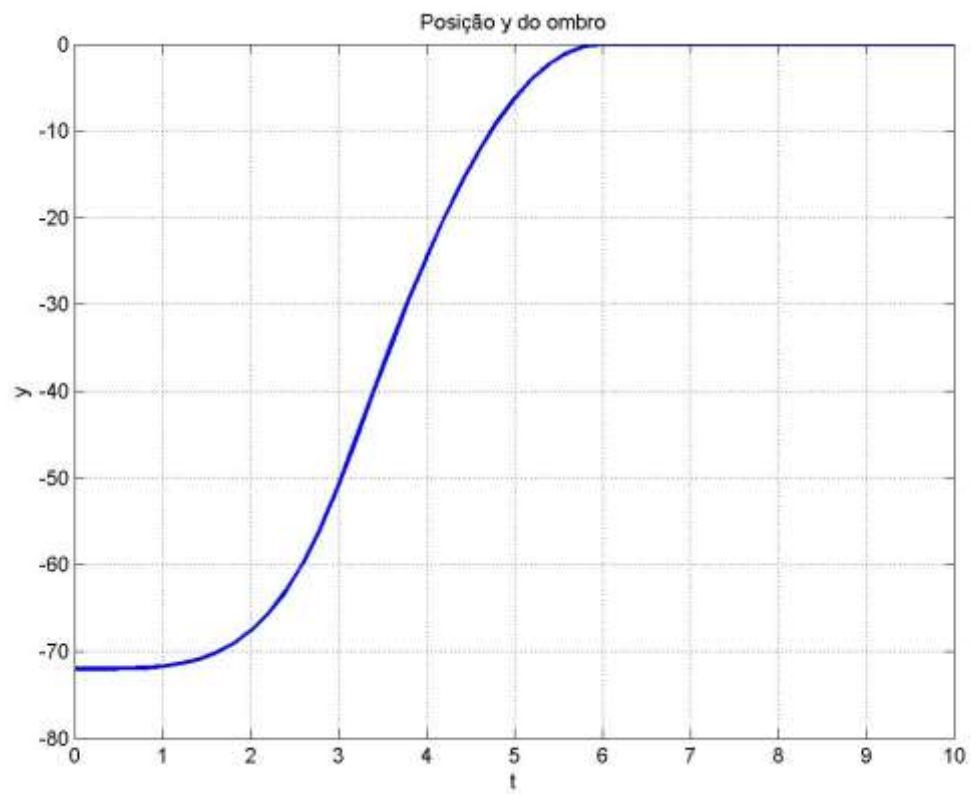
d. Configuração 2 cinemática Diferencial



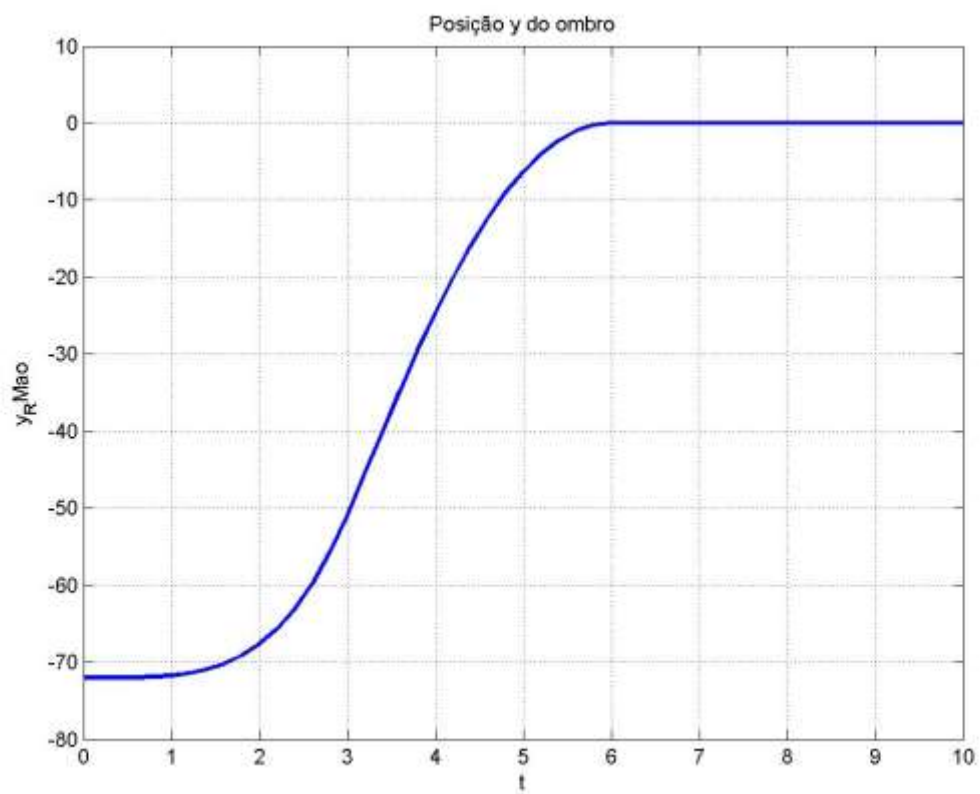
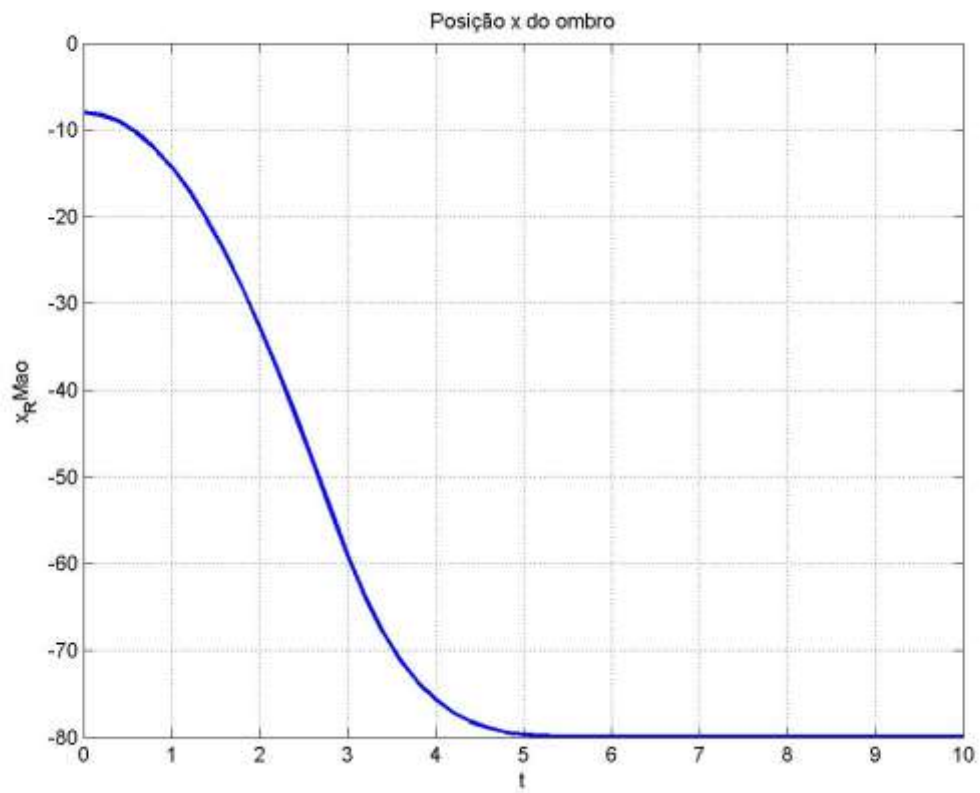


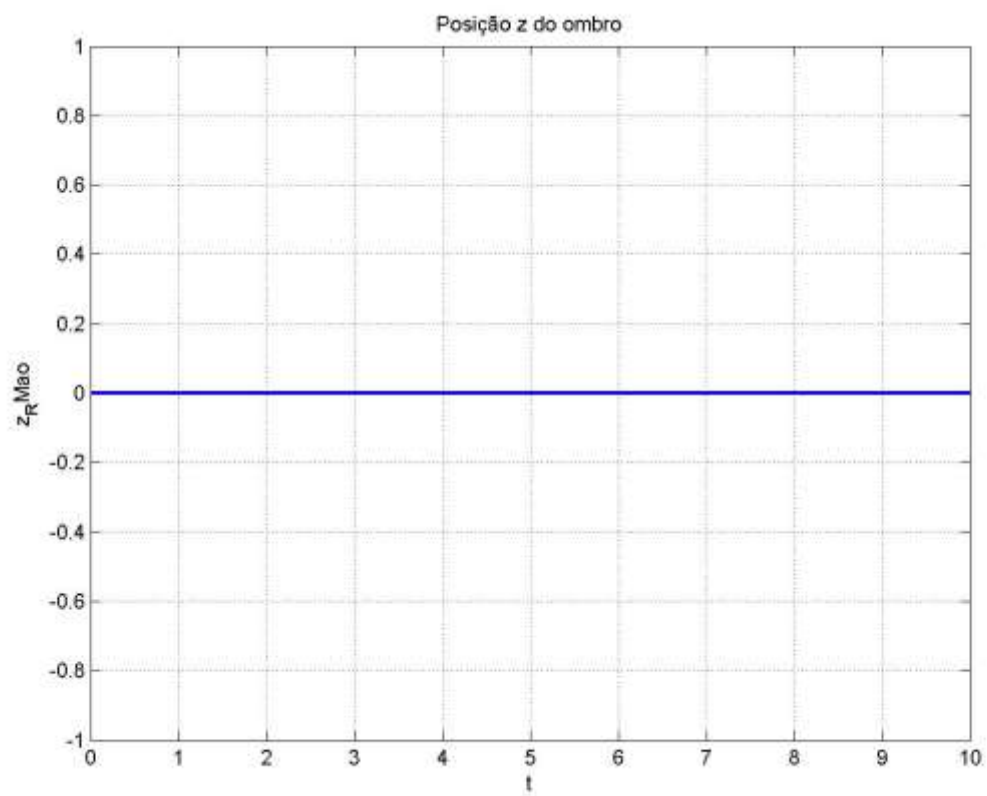
e. Configuração 3 cinemática Direta





f. Configuração 3 cinemática Diferencial

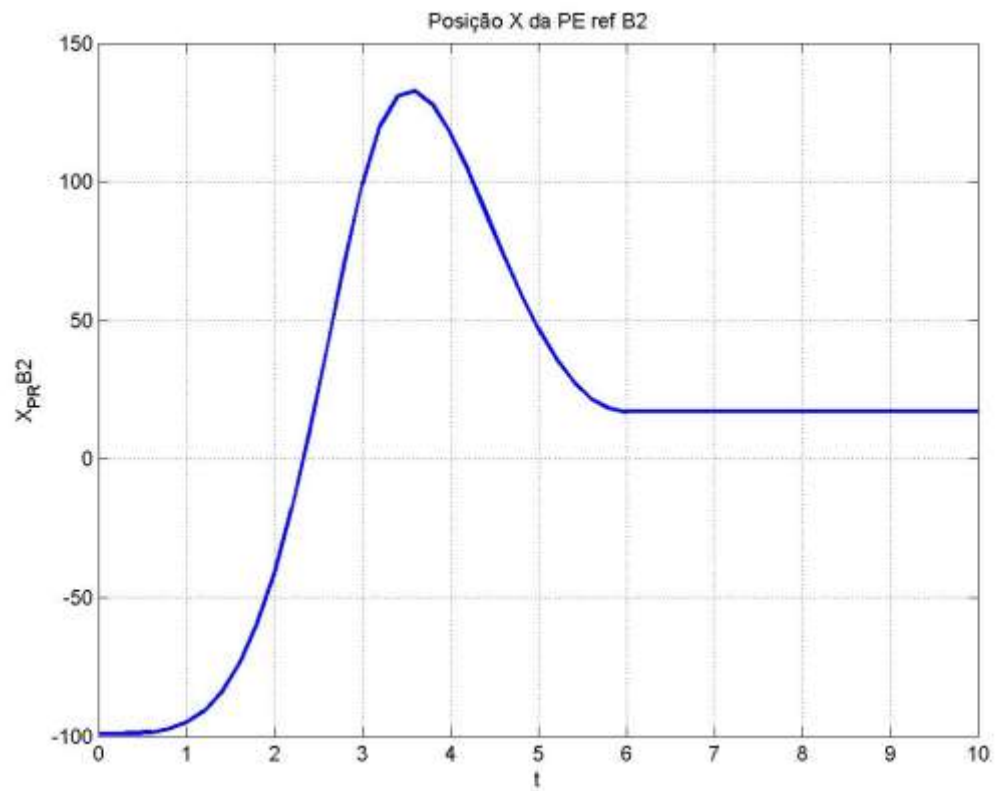


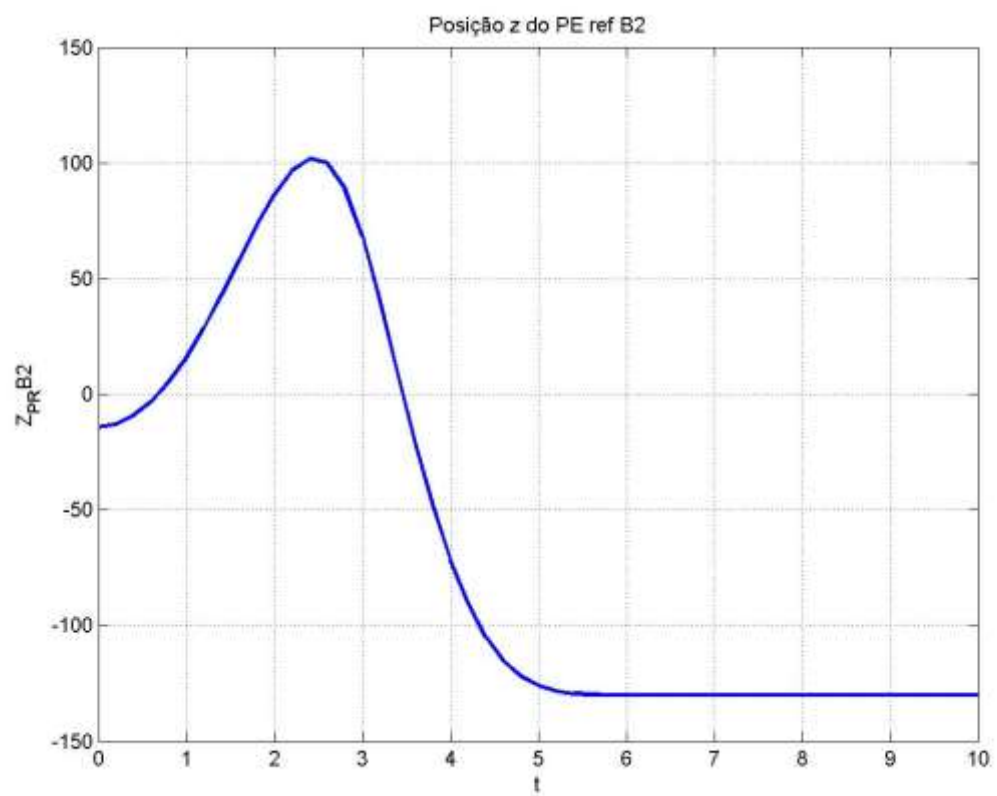
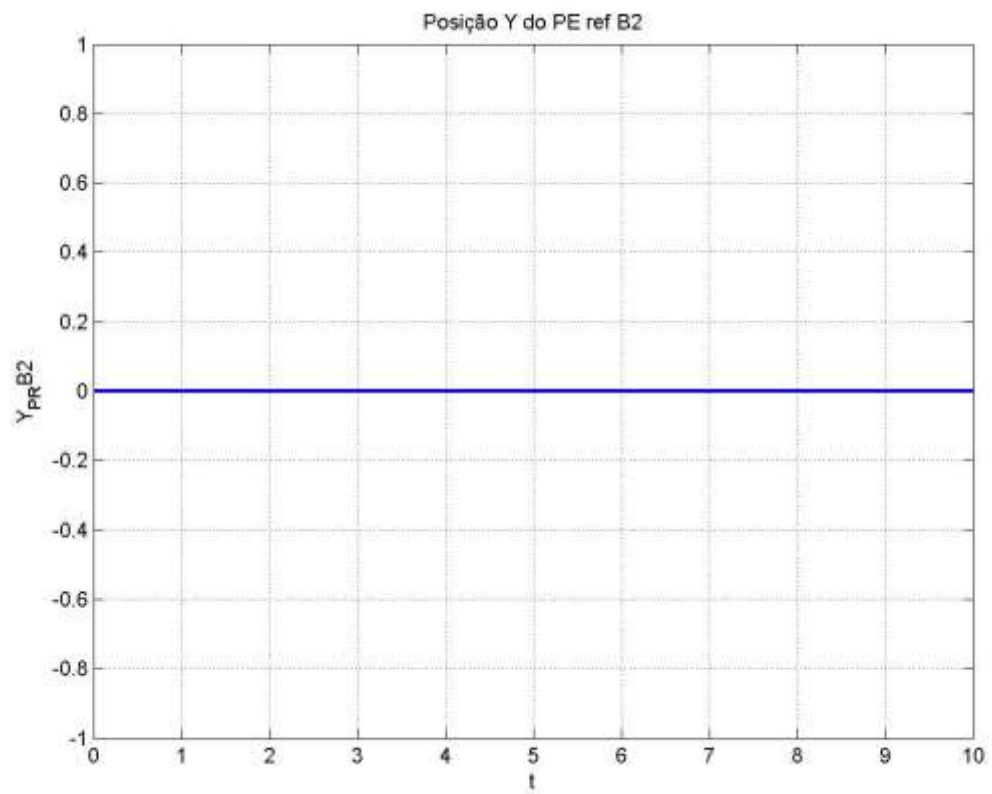


2. Gráficos gerados para a Perna Direita

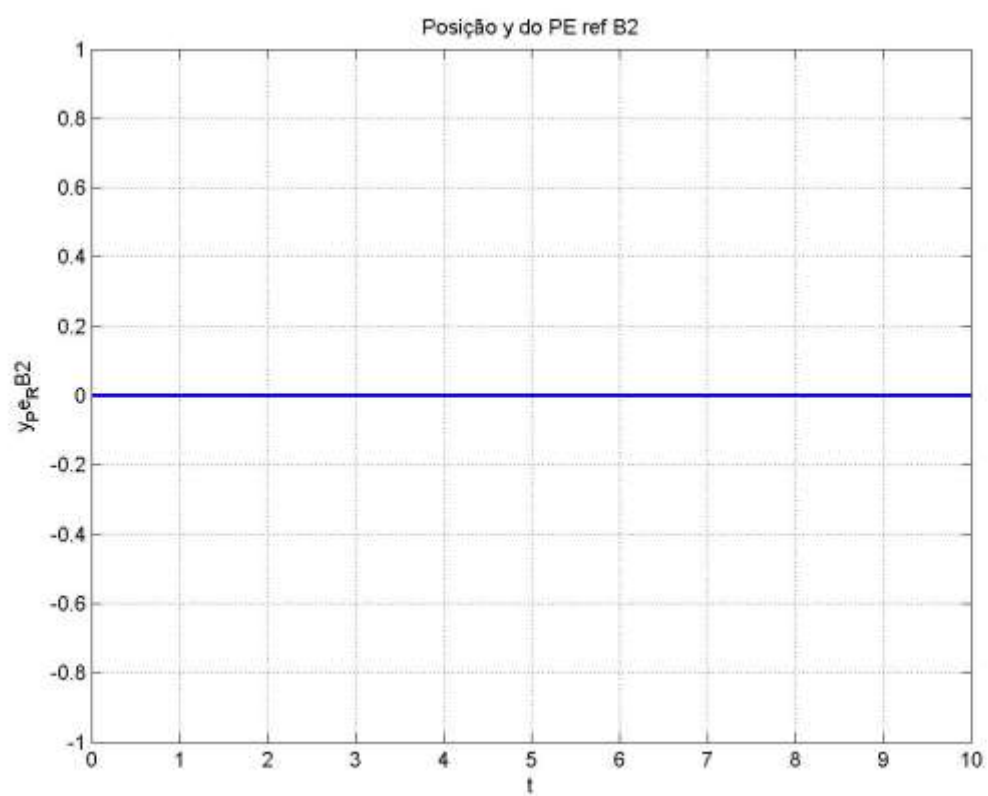
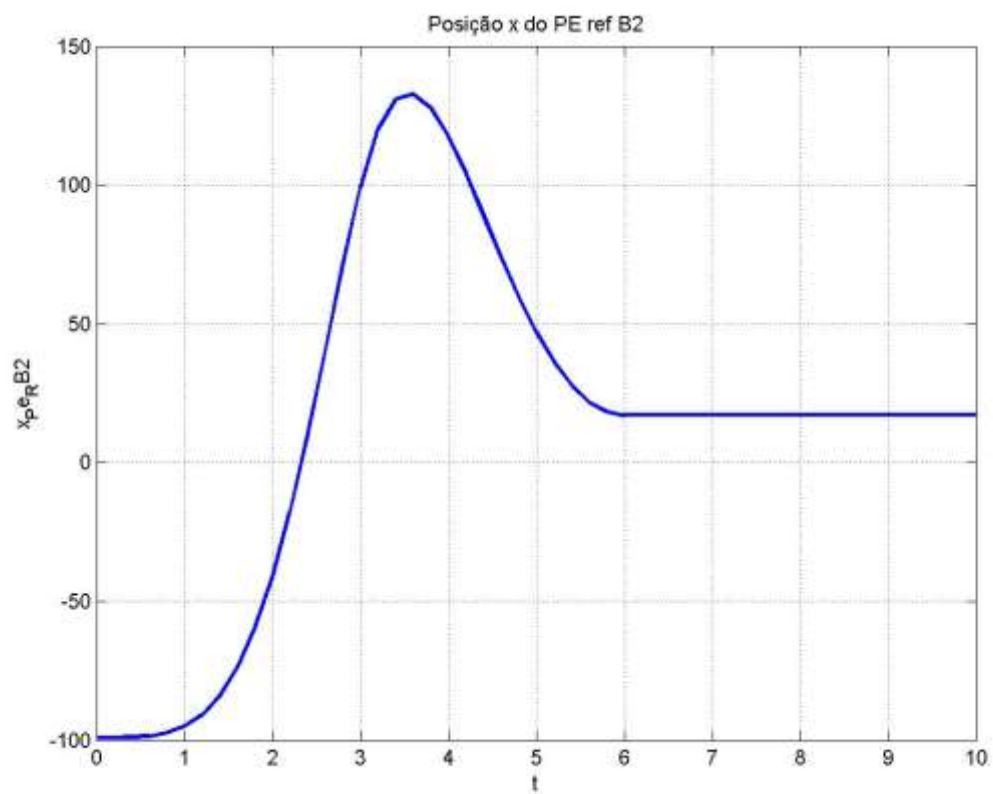
2.1. Posição x, y e z do pé com referencial em B2

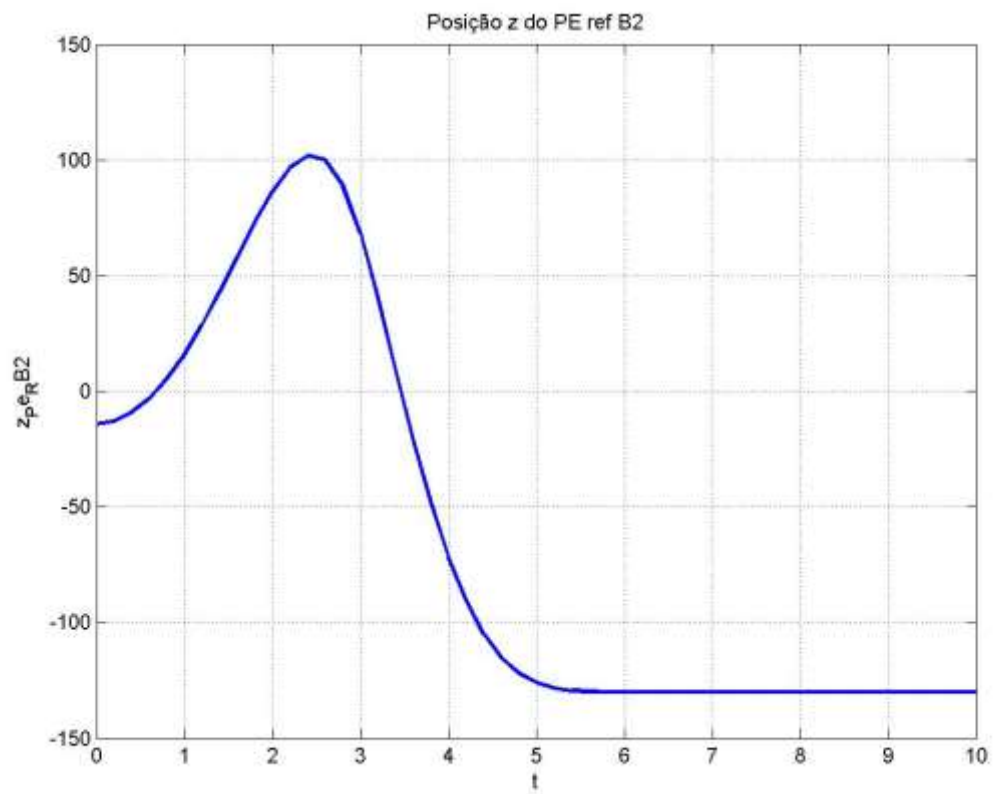
a. Configuração 1 cinemática direta



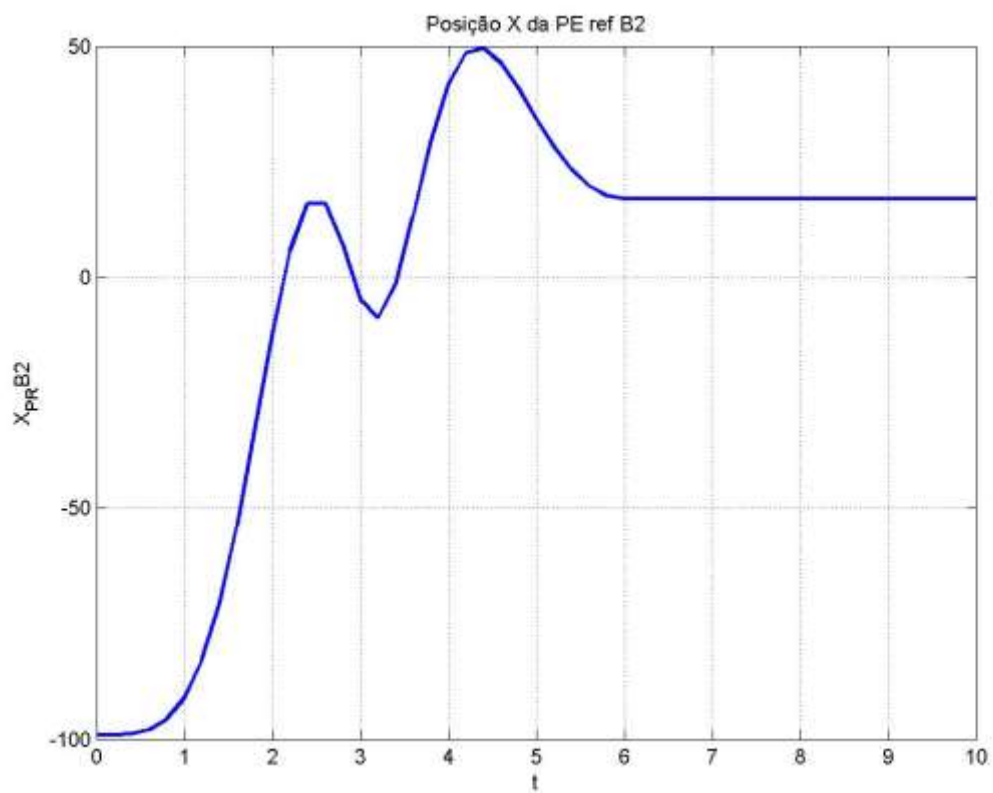


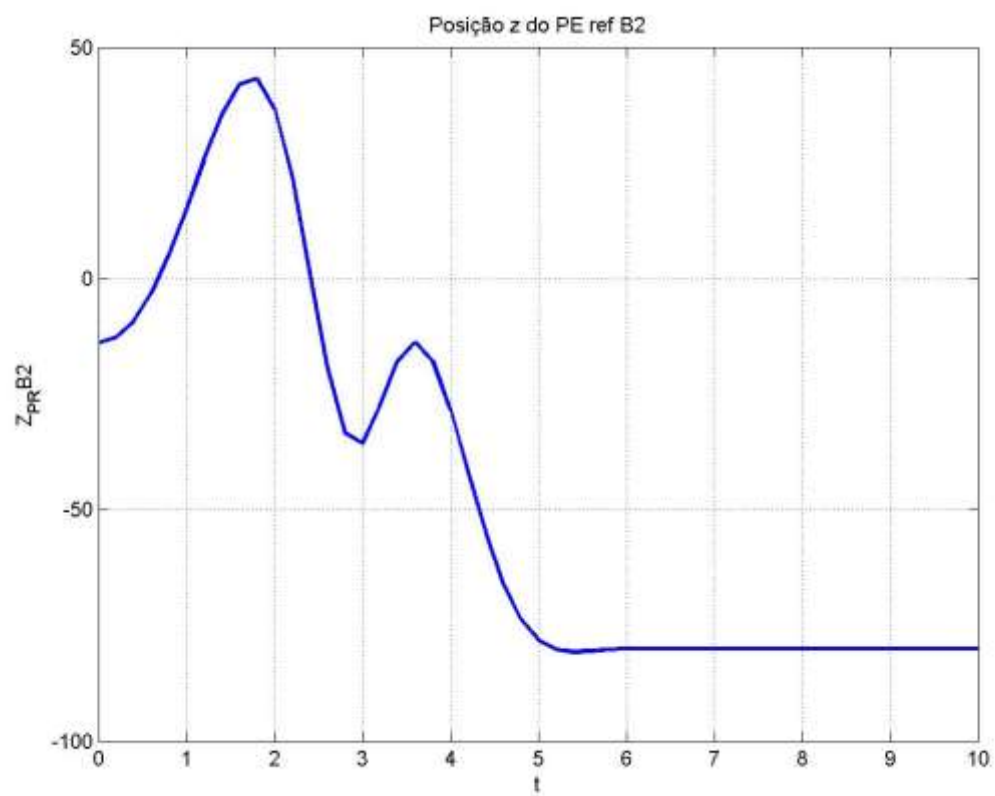
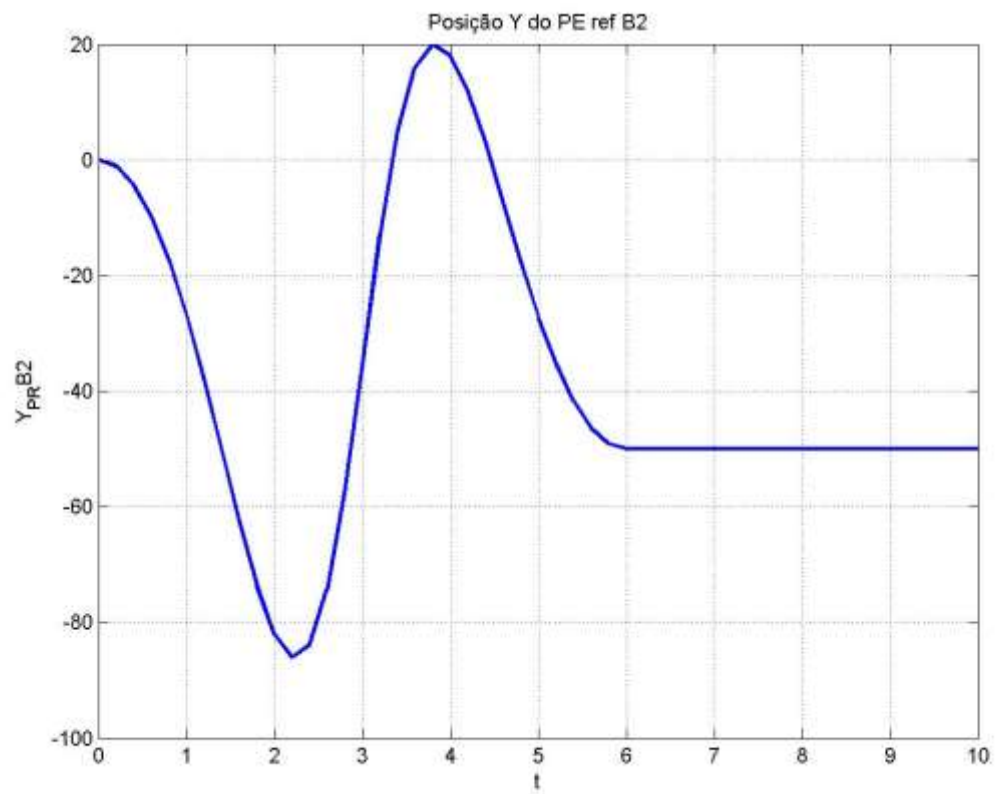
b. Configuração 1 cinemática diferencial



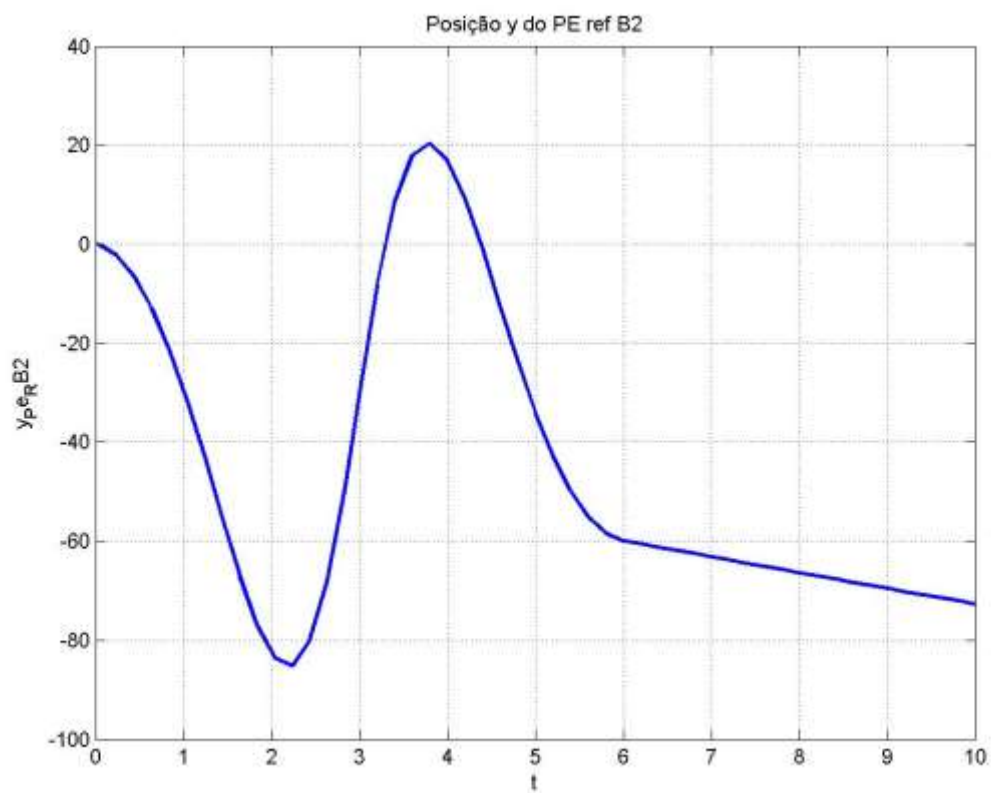
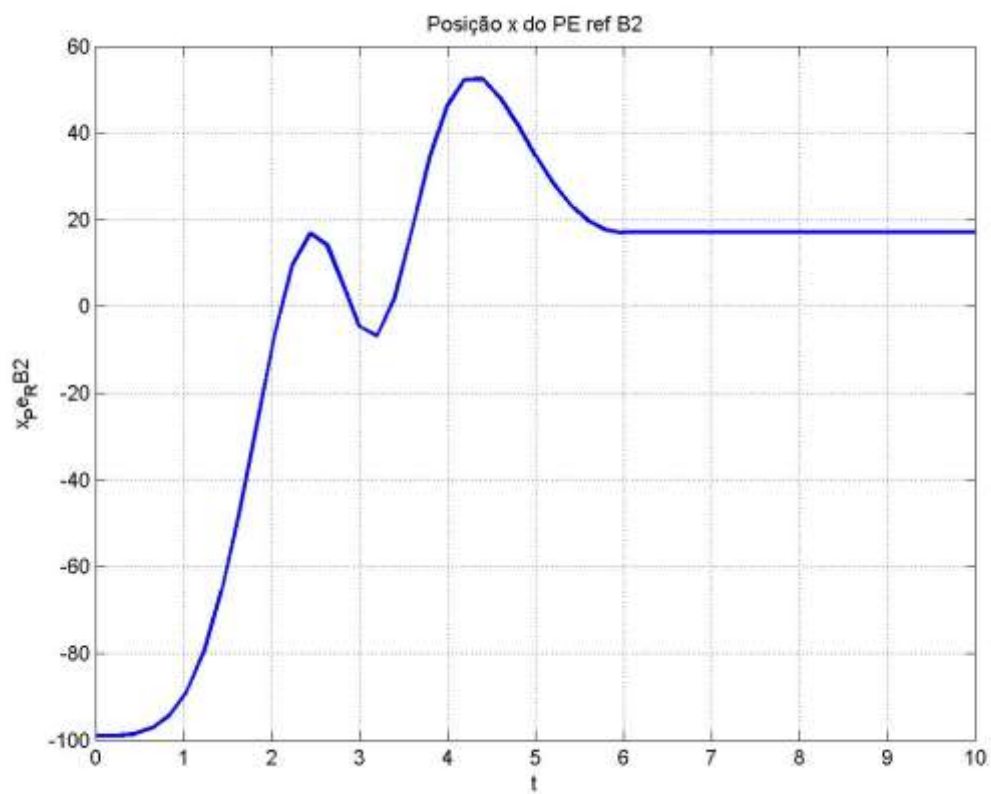


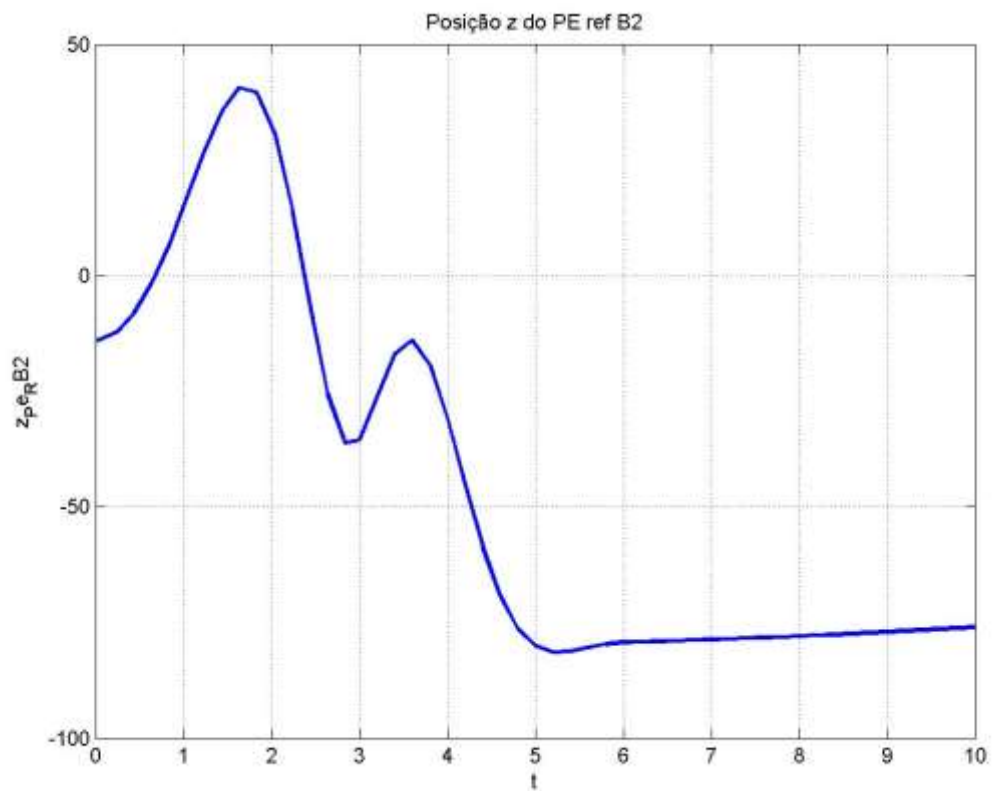
c. Configuração 2 cinemática direta



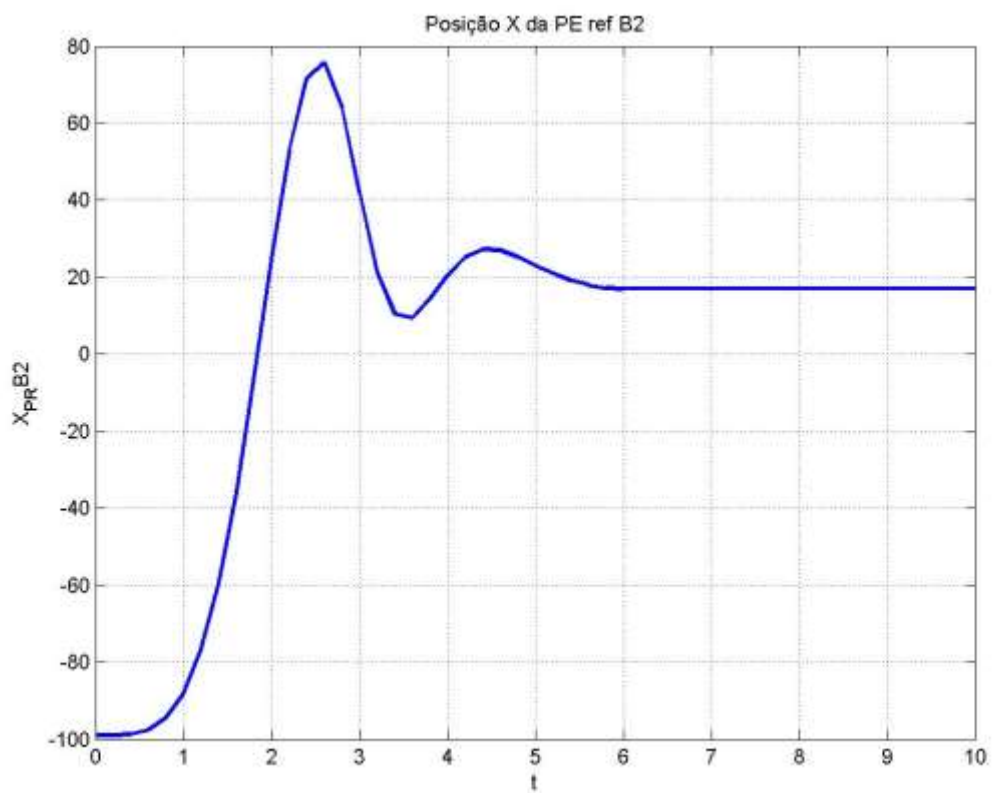


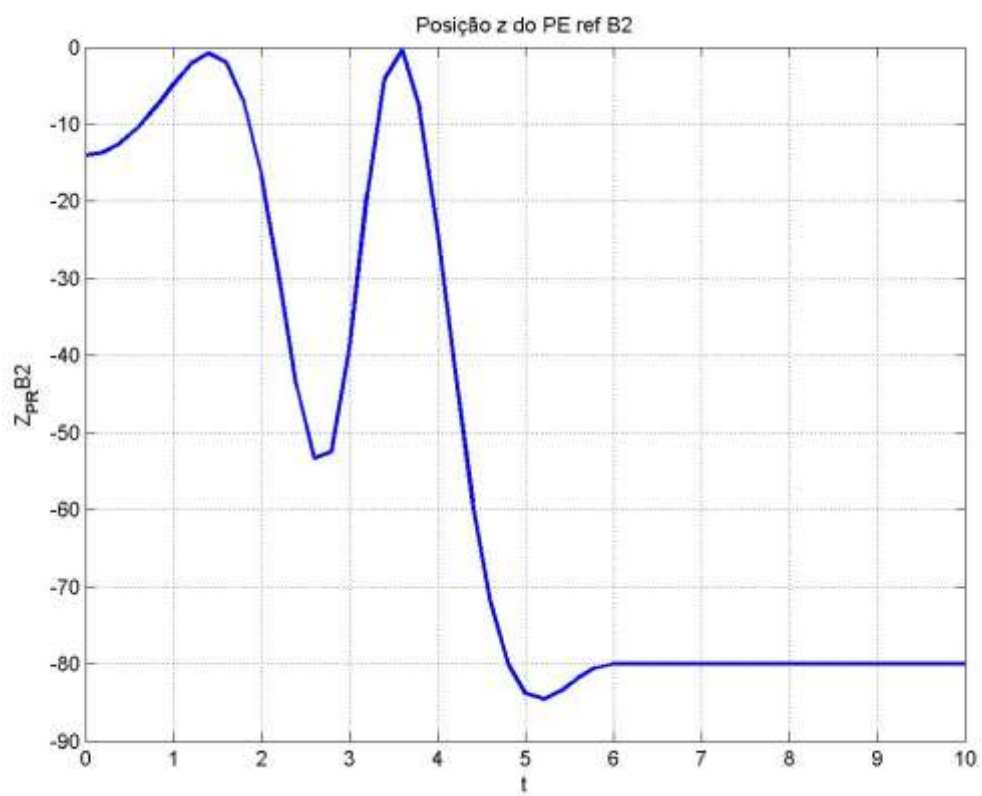
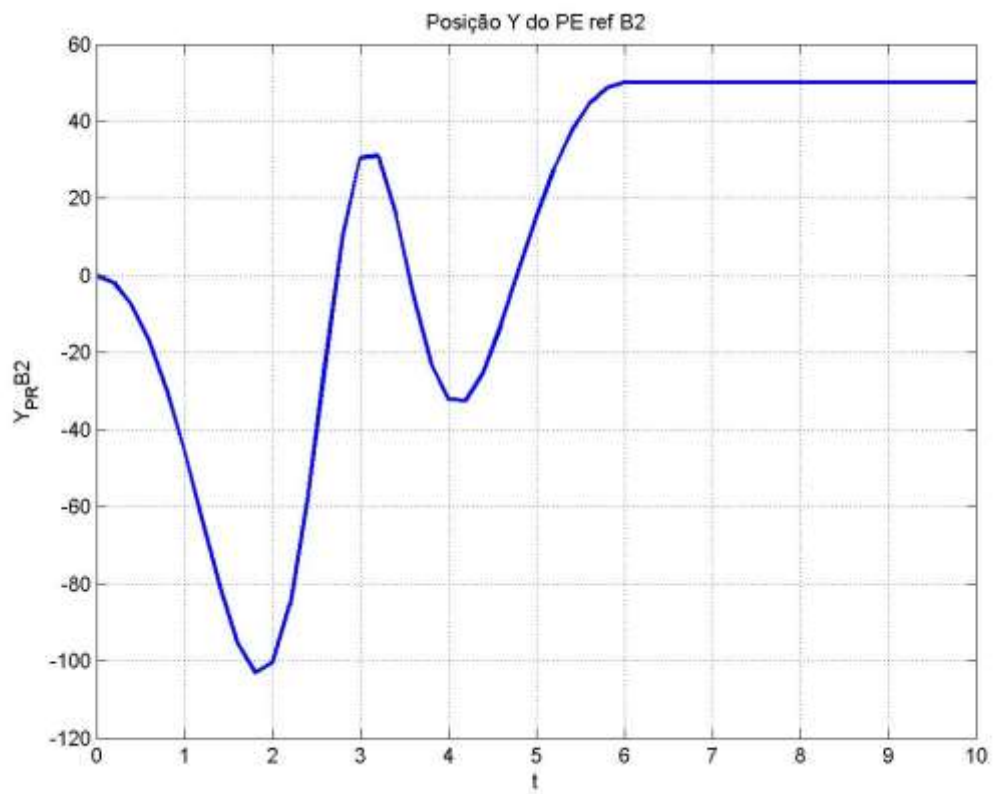
d. Configuração 2 cinemática diferencial



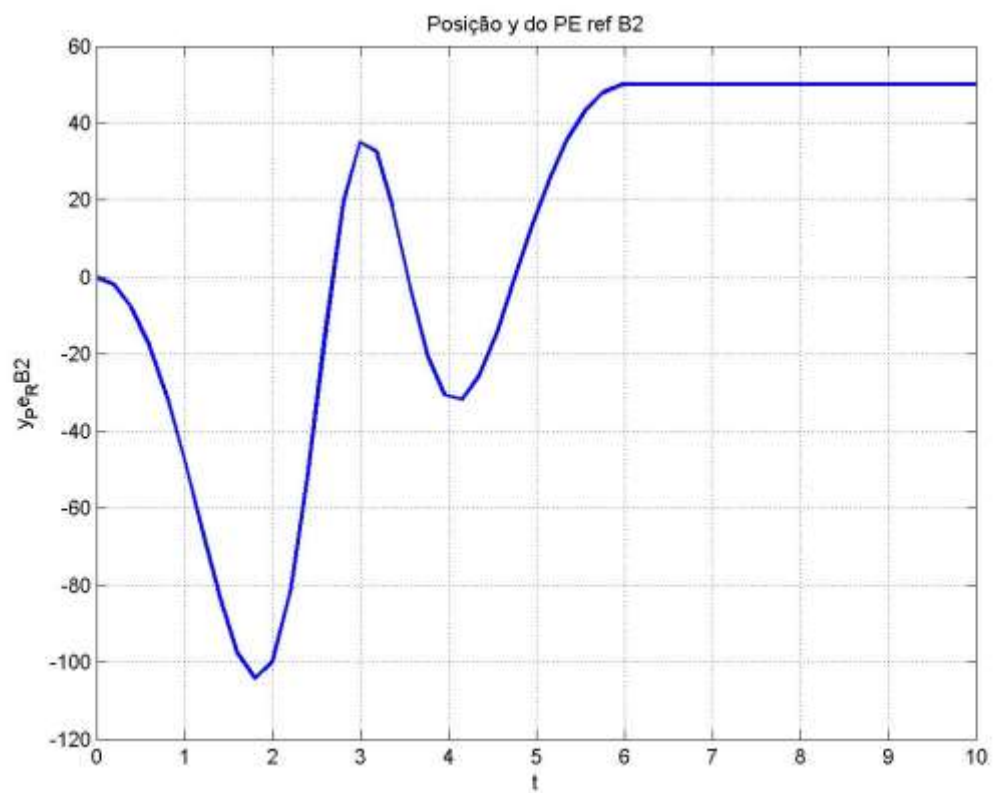
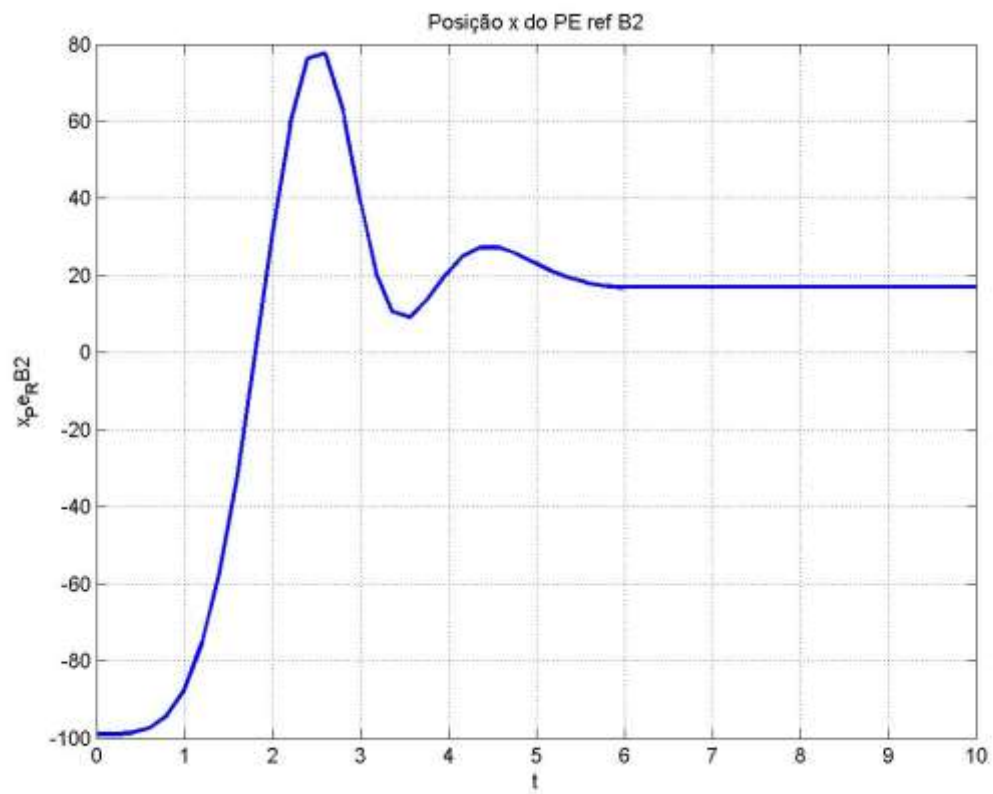


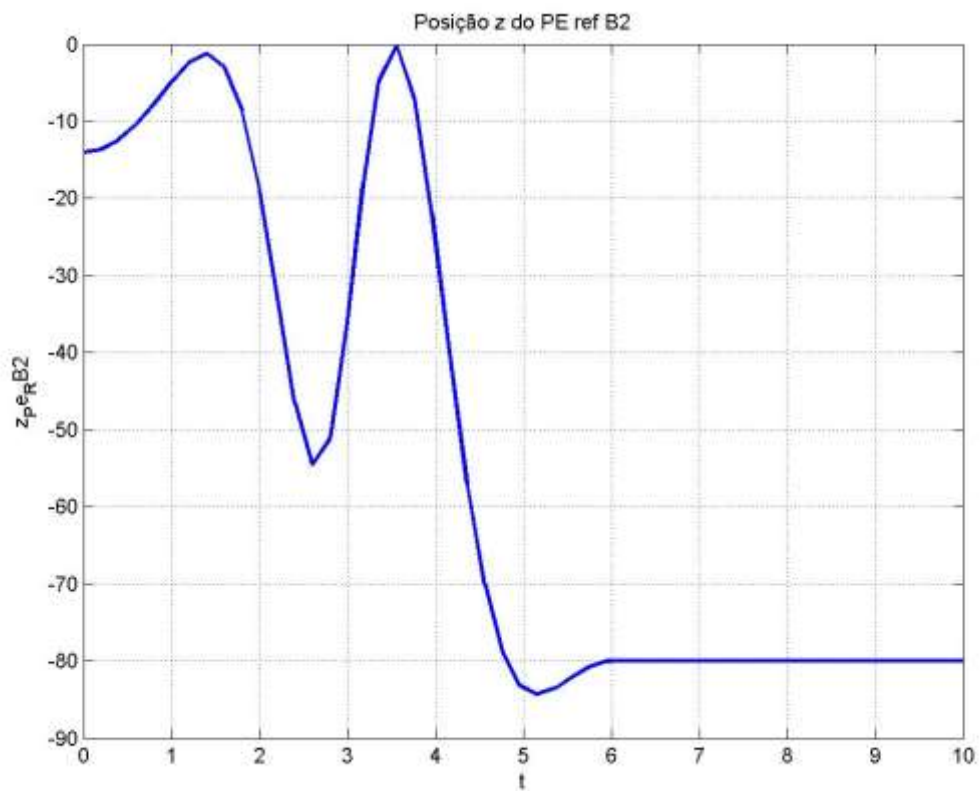
e. Configuração 3 cinemática Direta





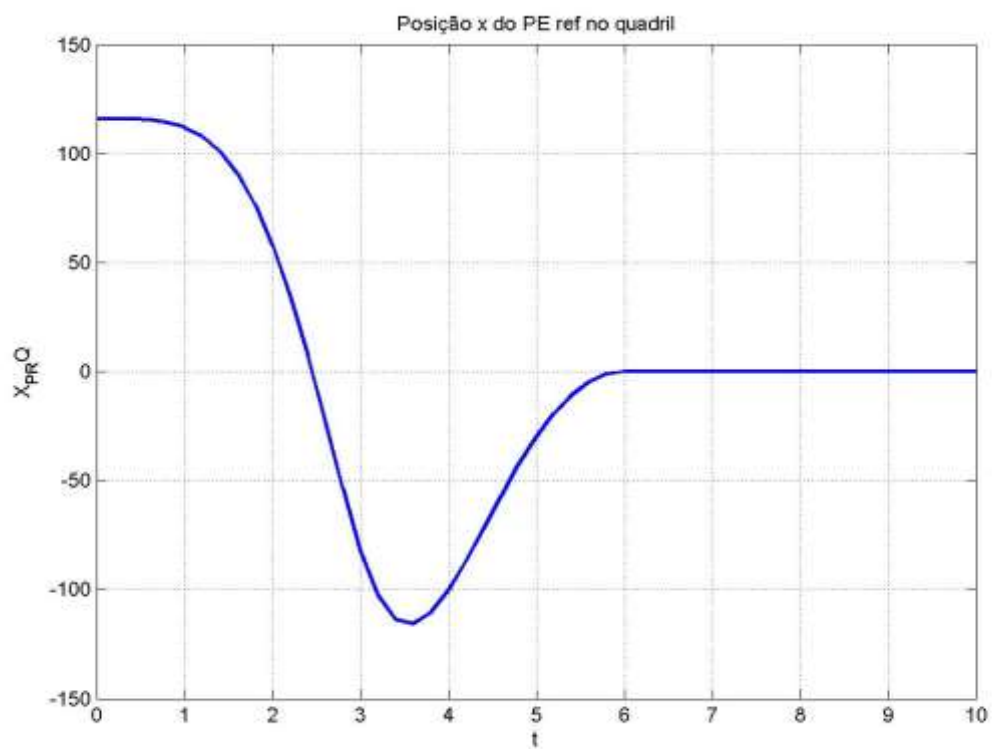
f. Configuração 3 cinemática Diferencial

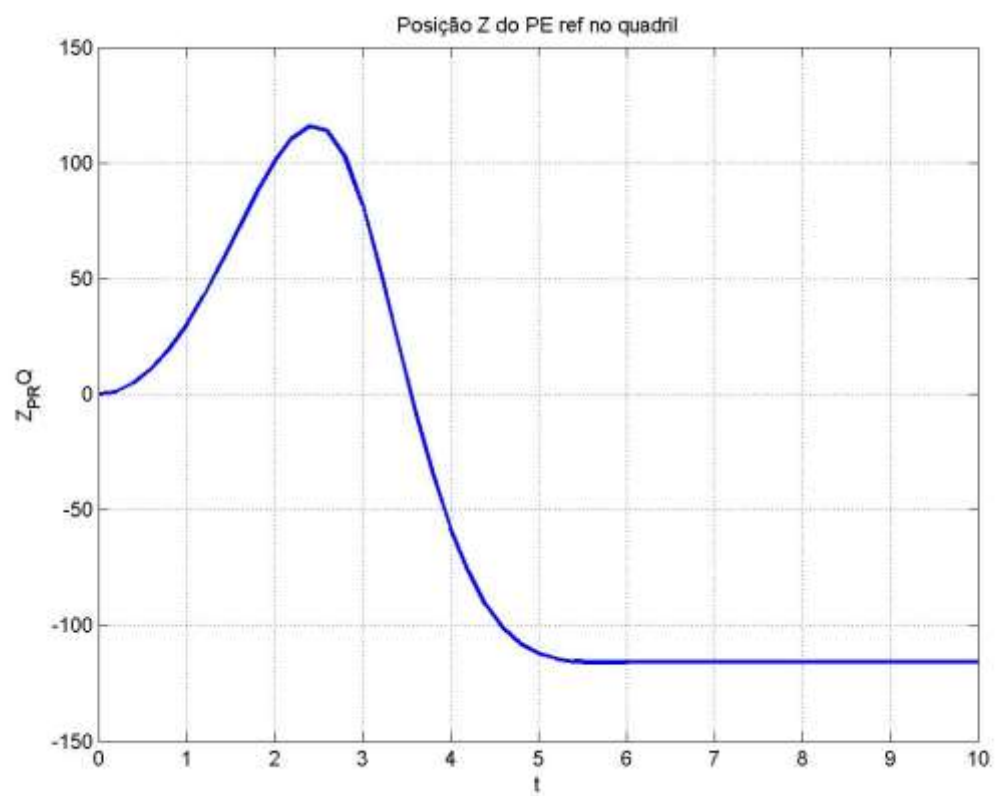
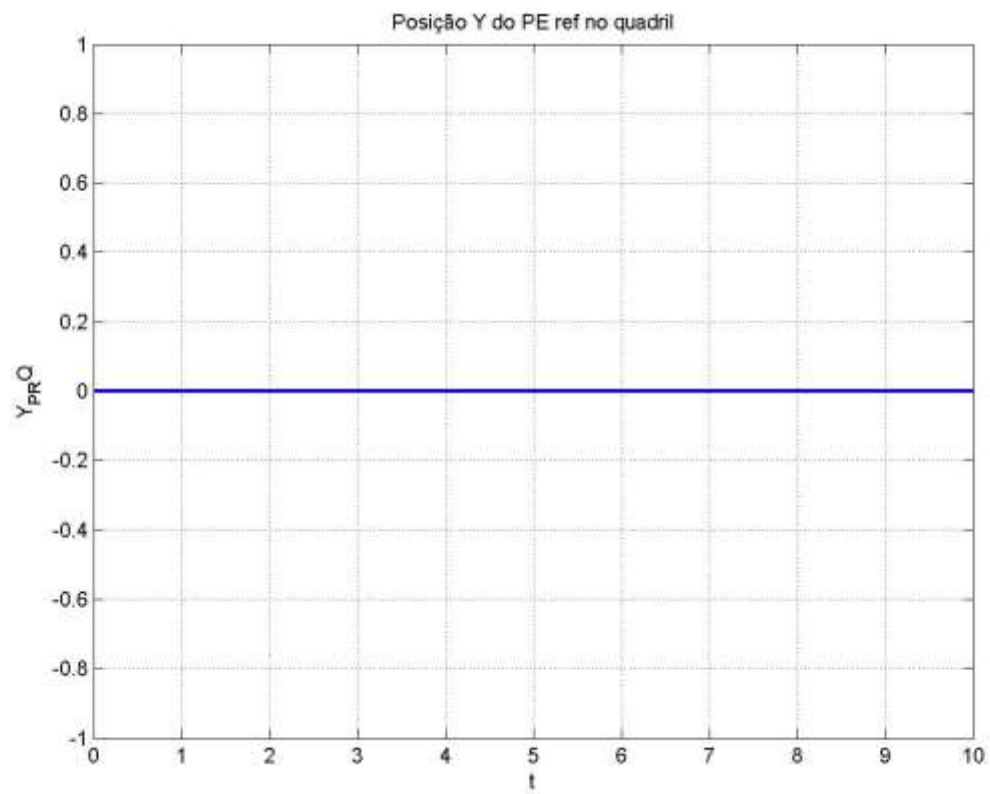




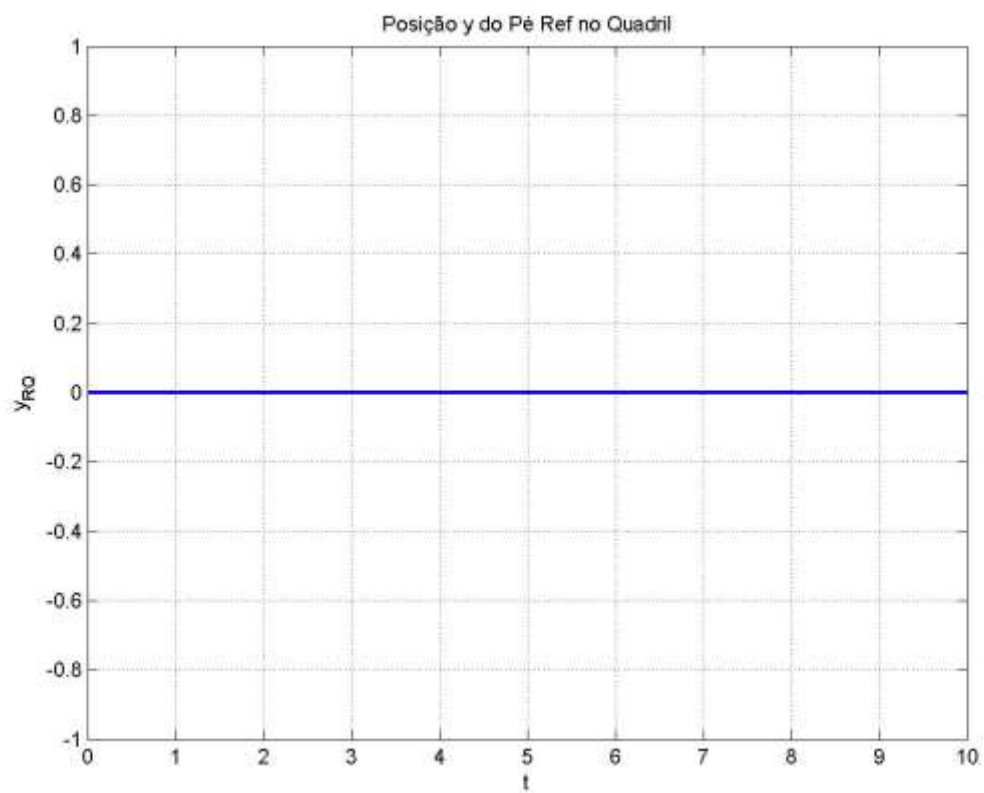
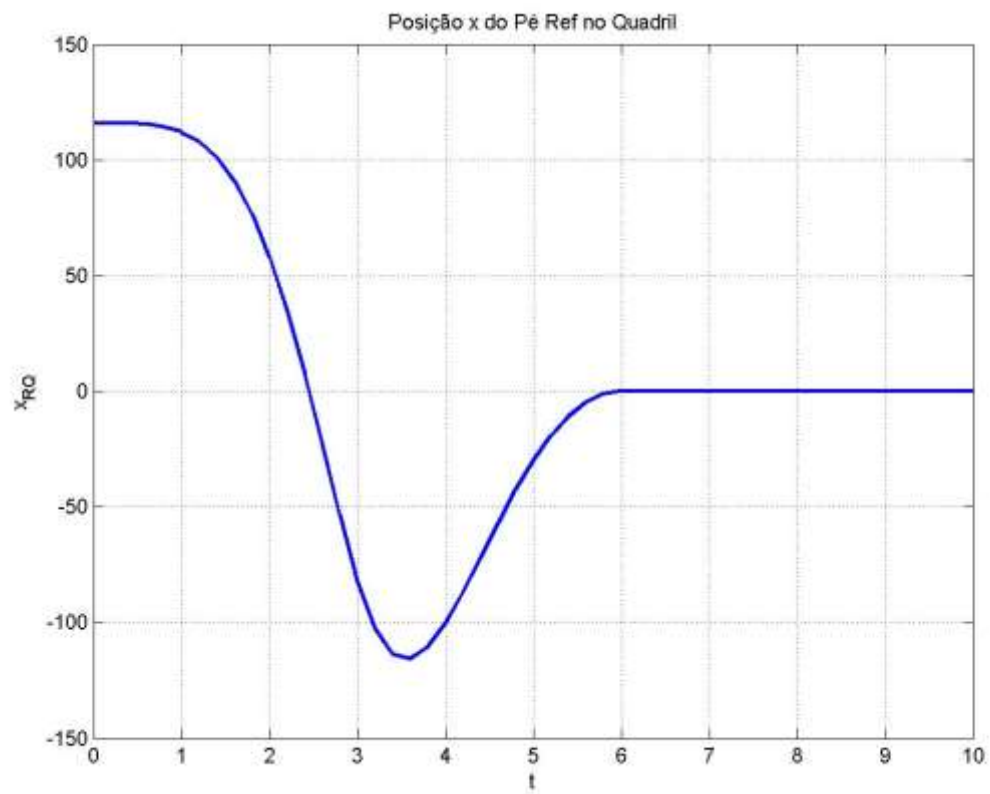
2.2. Posição x, y e z do pé com referencial no Quadril

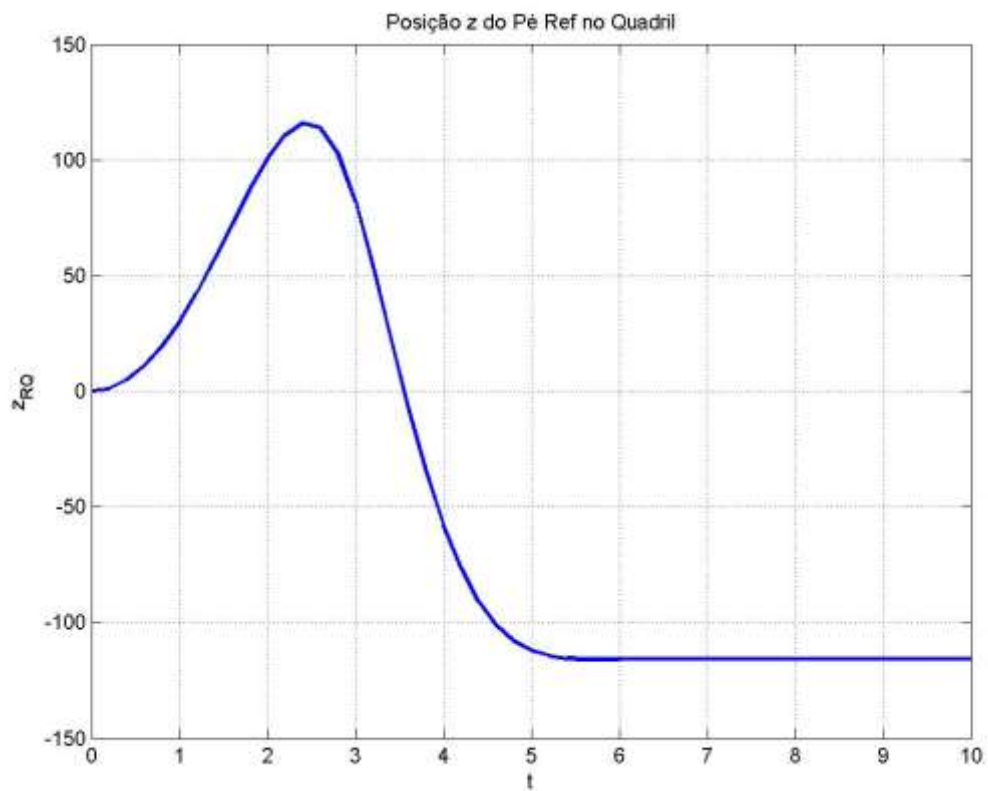
a. Configuração 1 cinemática direta



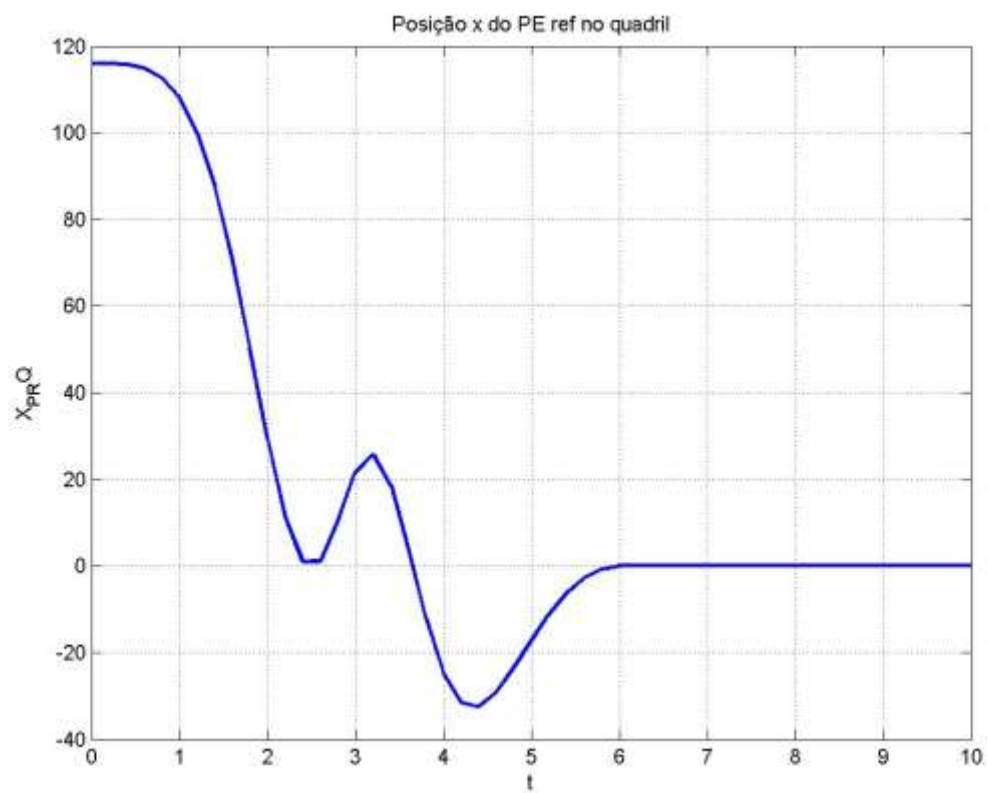


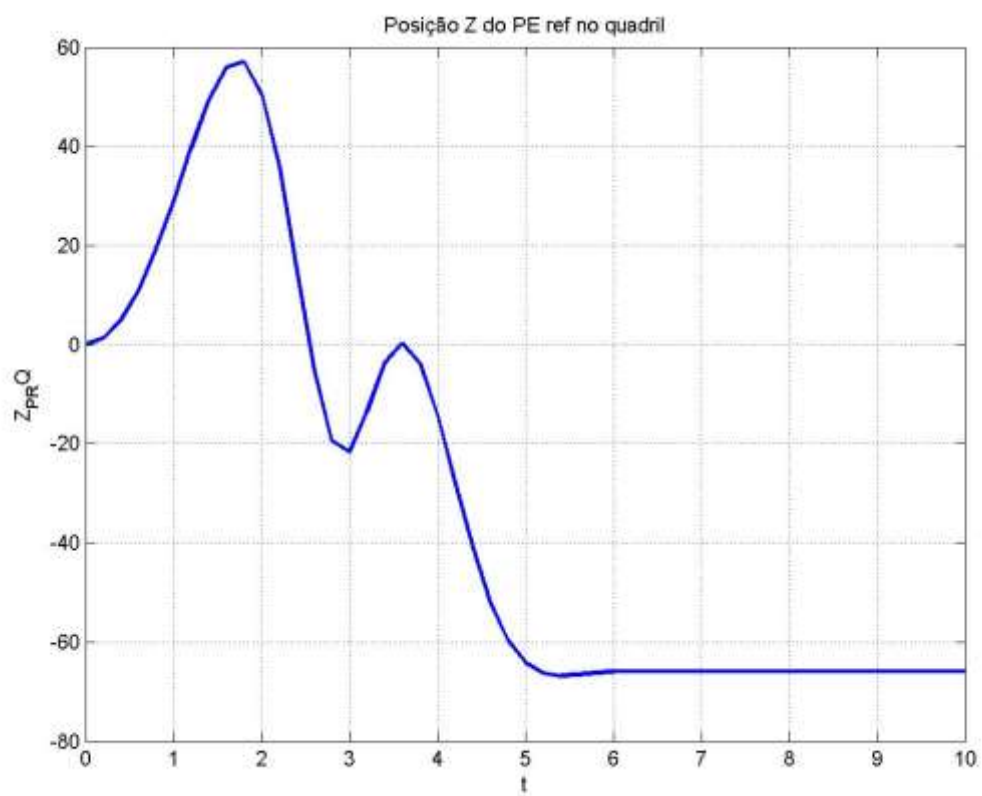
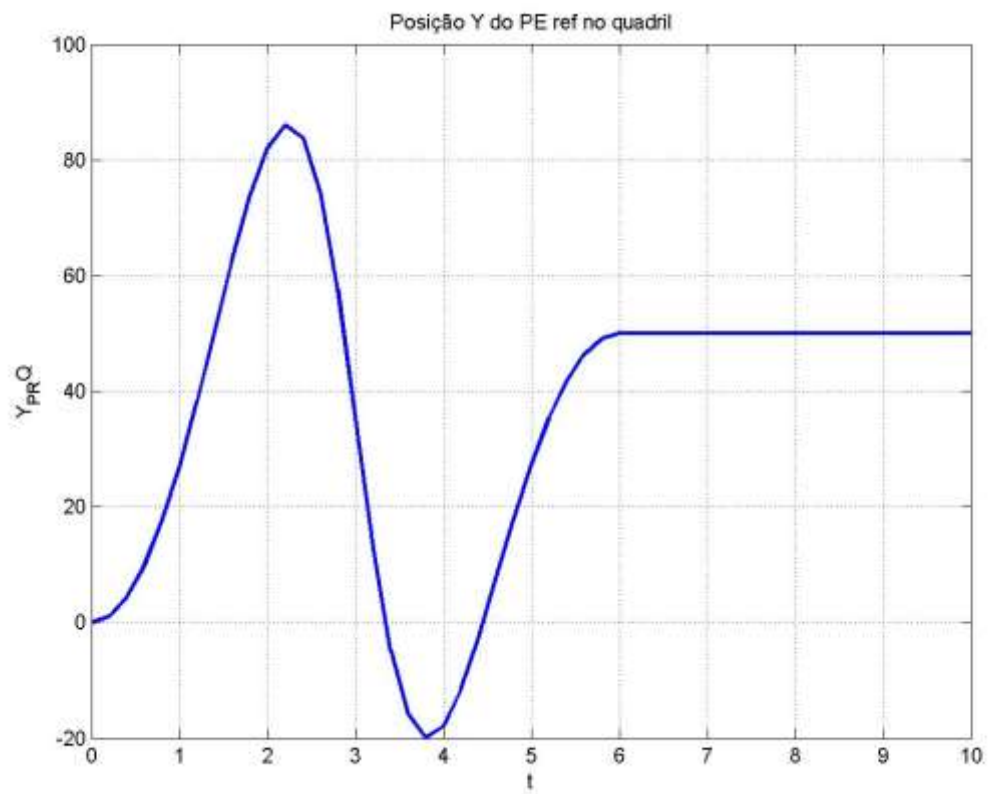
b. Configuração 1 cinemática diferencial



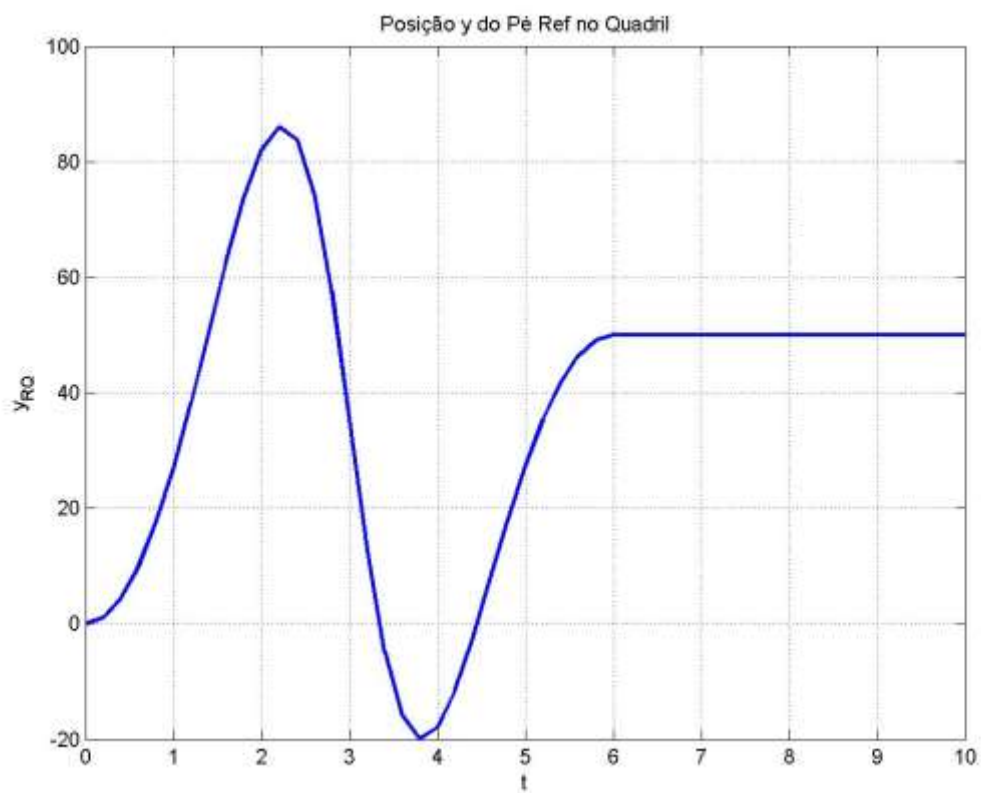
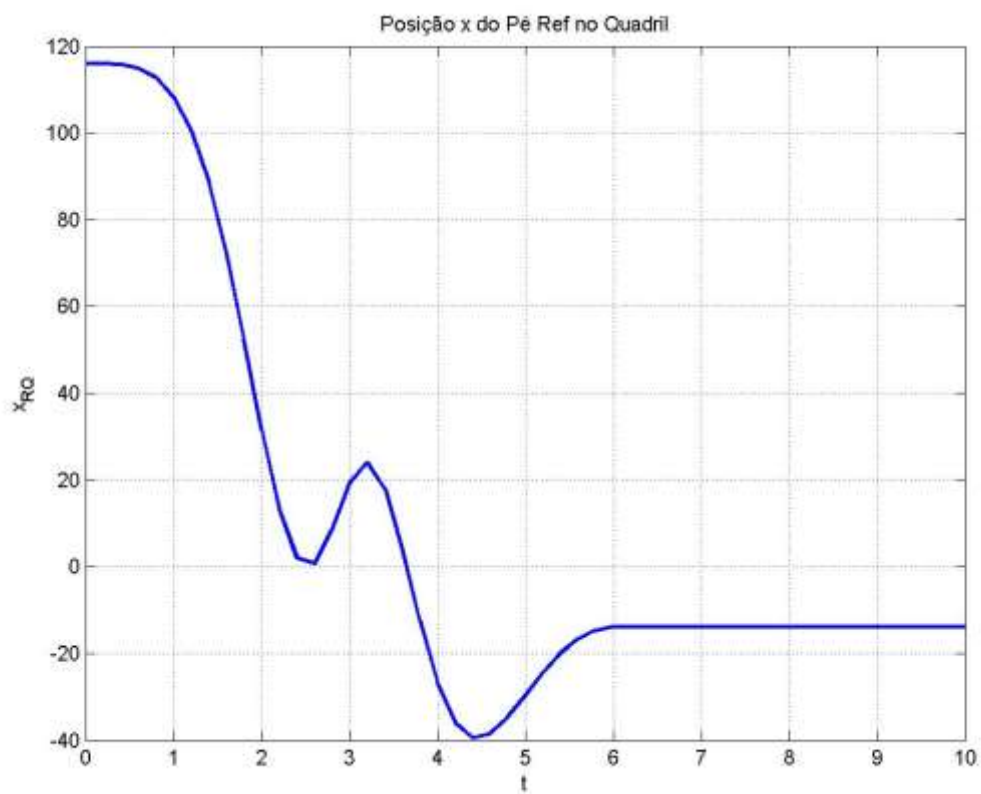


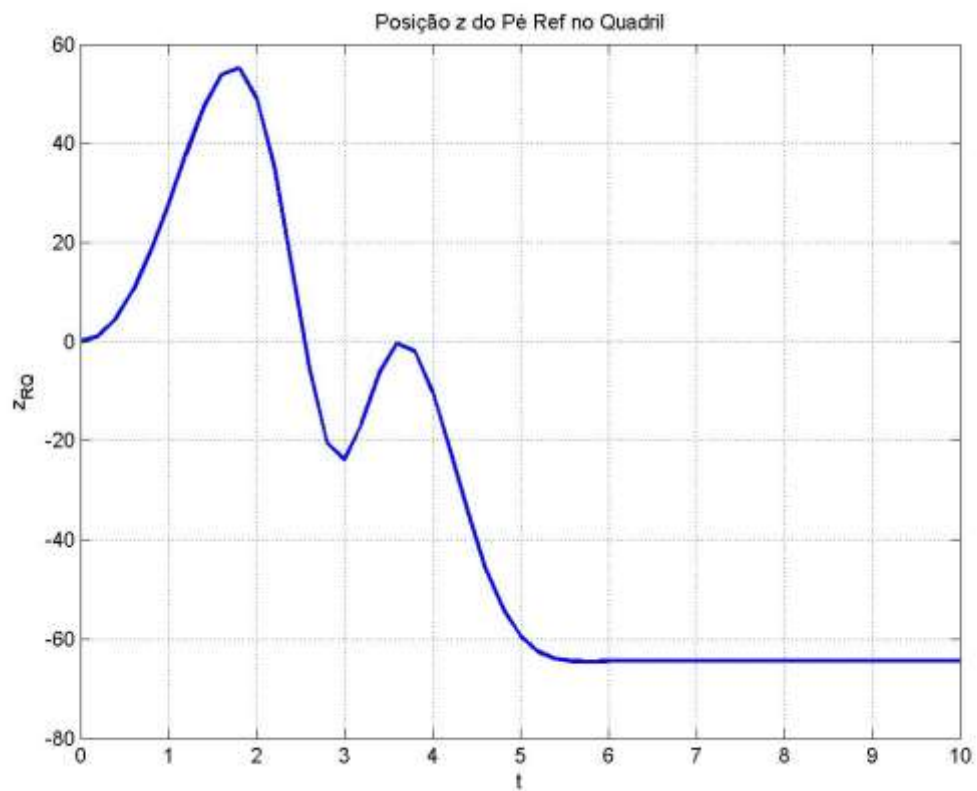
c. Configuração 2 cinemática direta



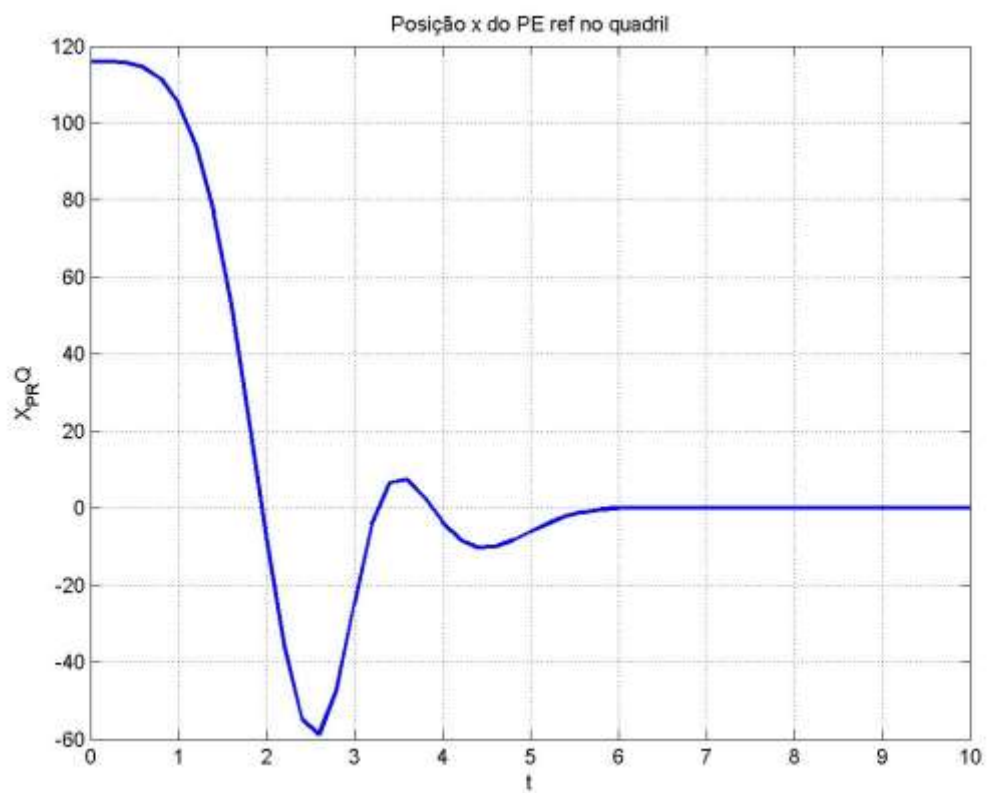


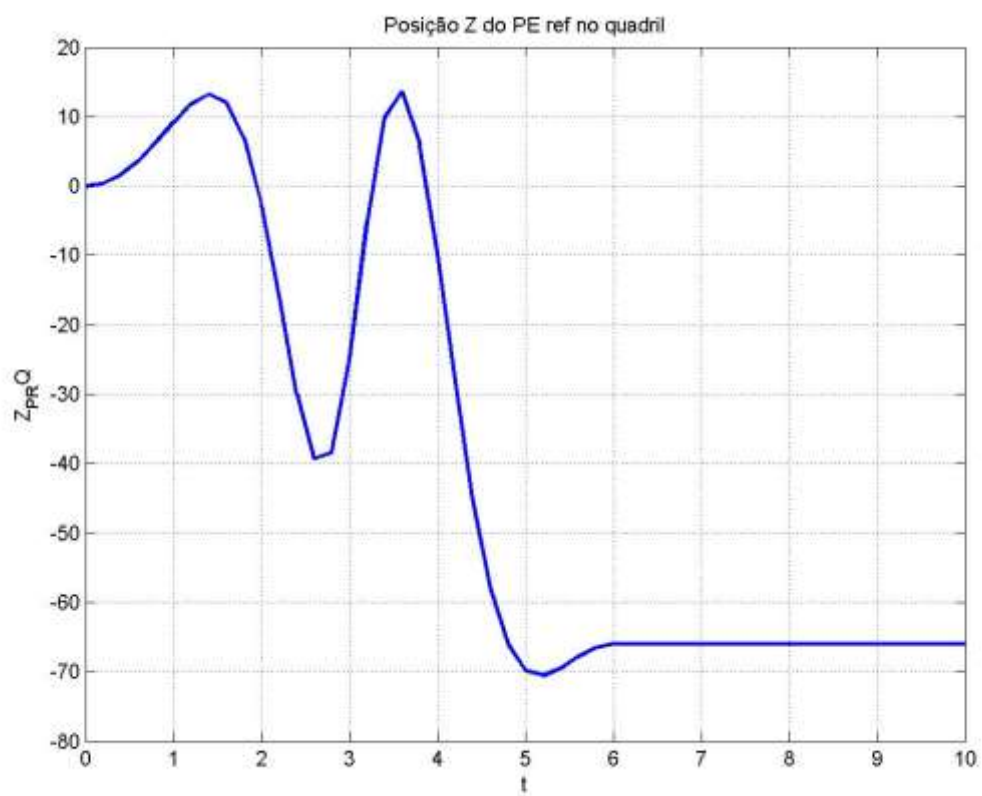
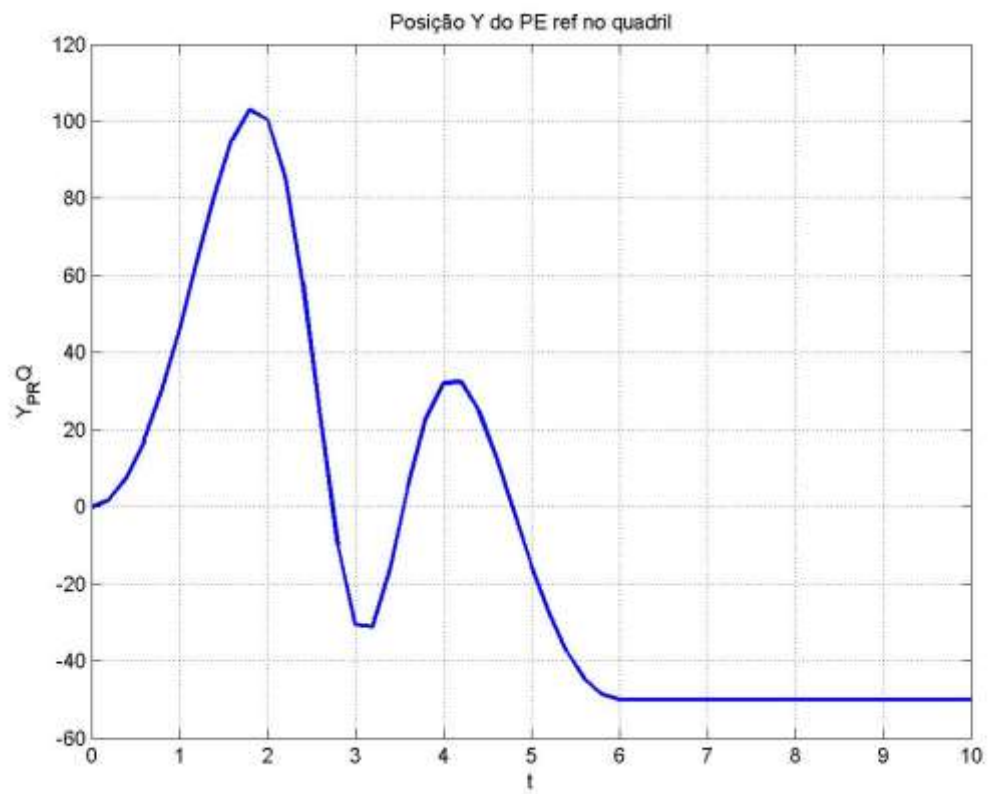
d. Configuração 2 cinemática diferencial



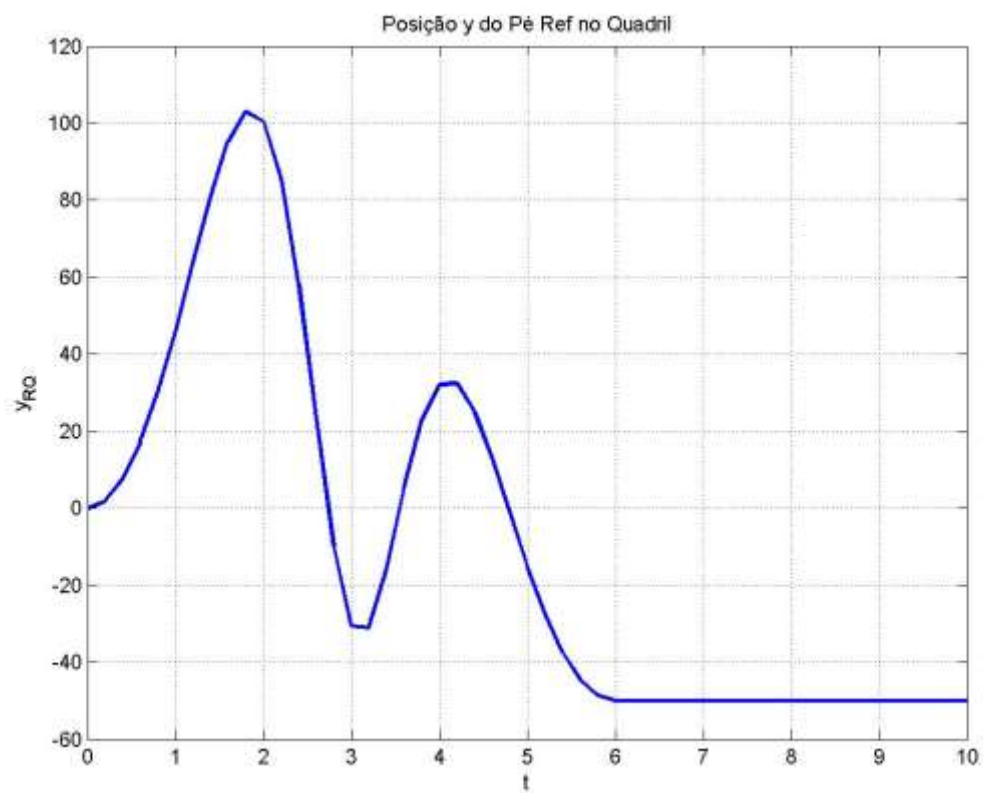
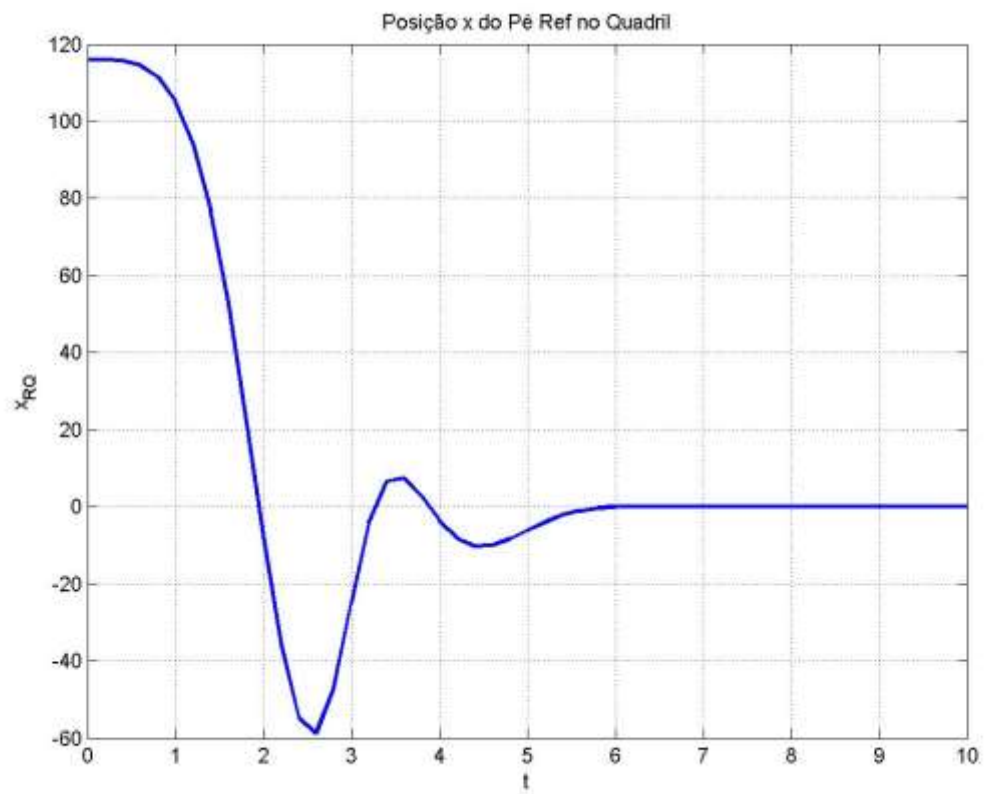


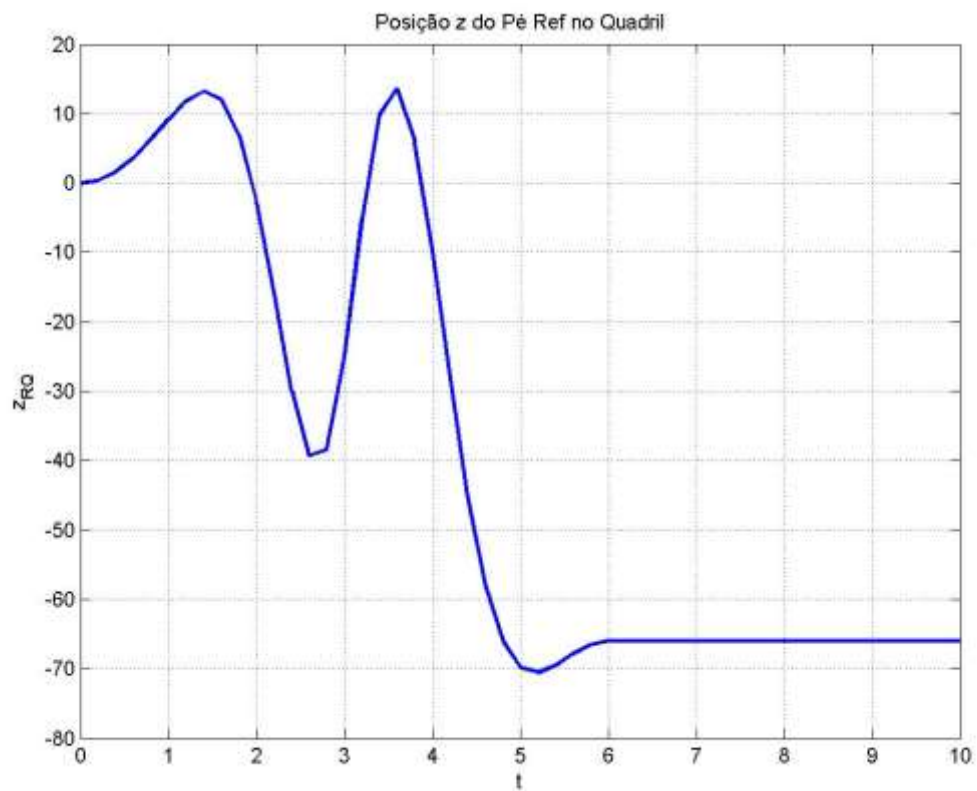
e. Configuração 3 cinemática direta





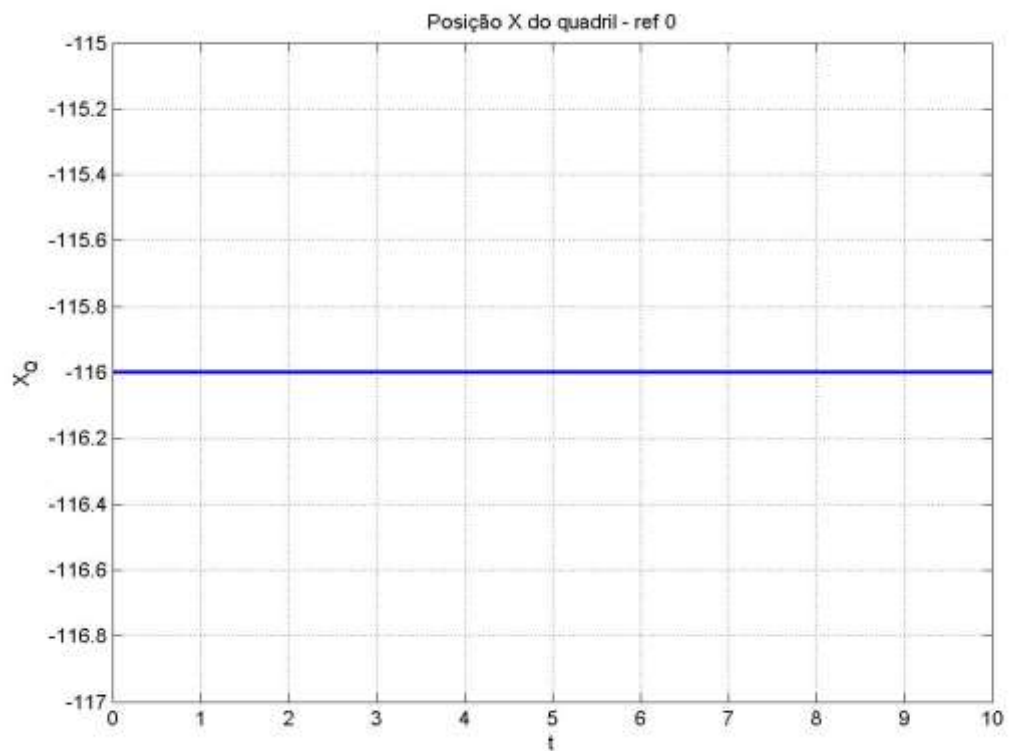
f. Configuração 3 cinemática Diferencial

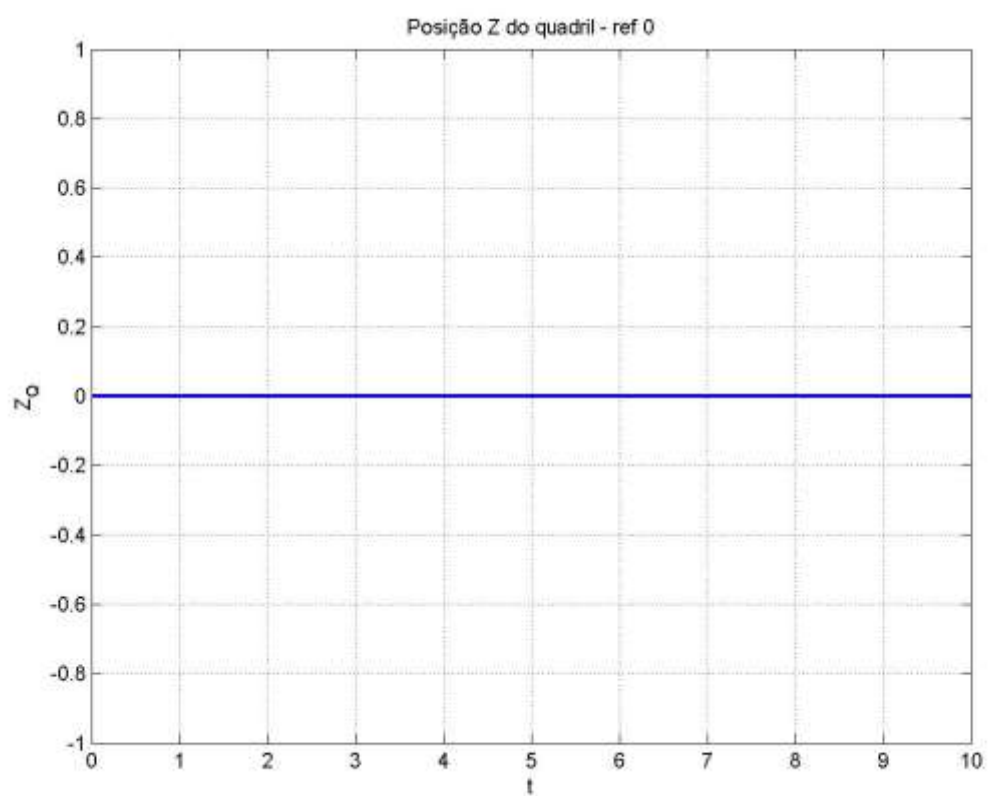
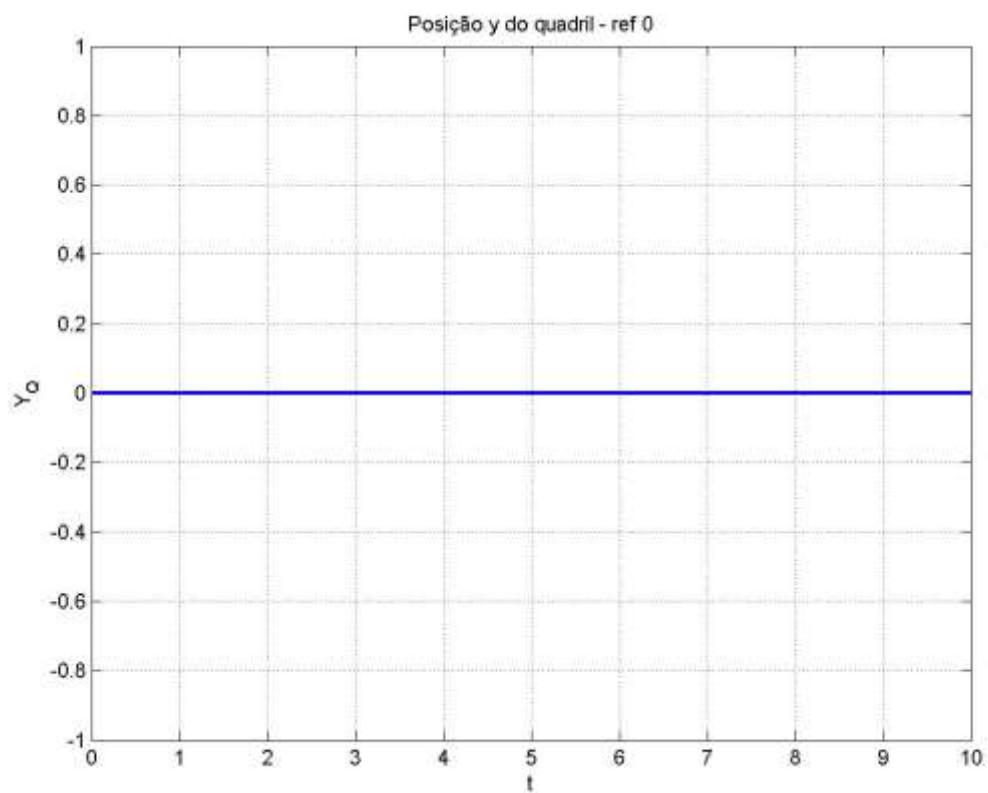




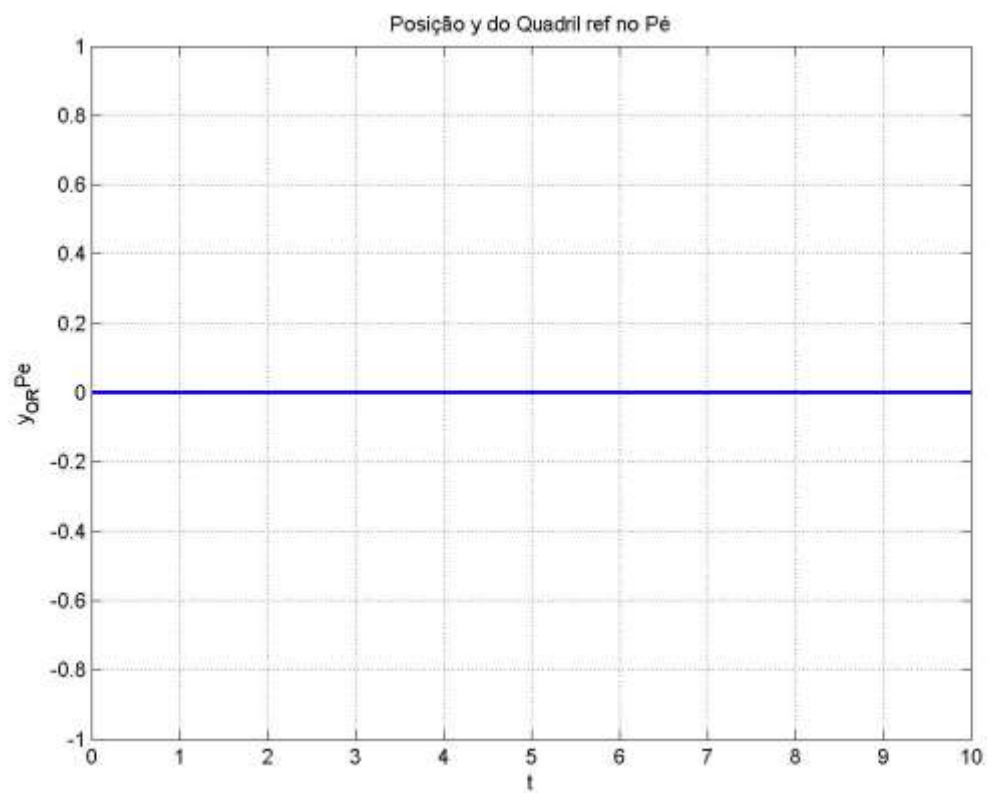
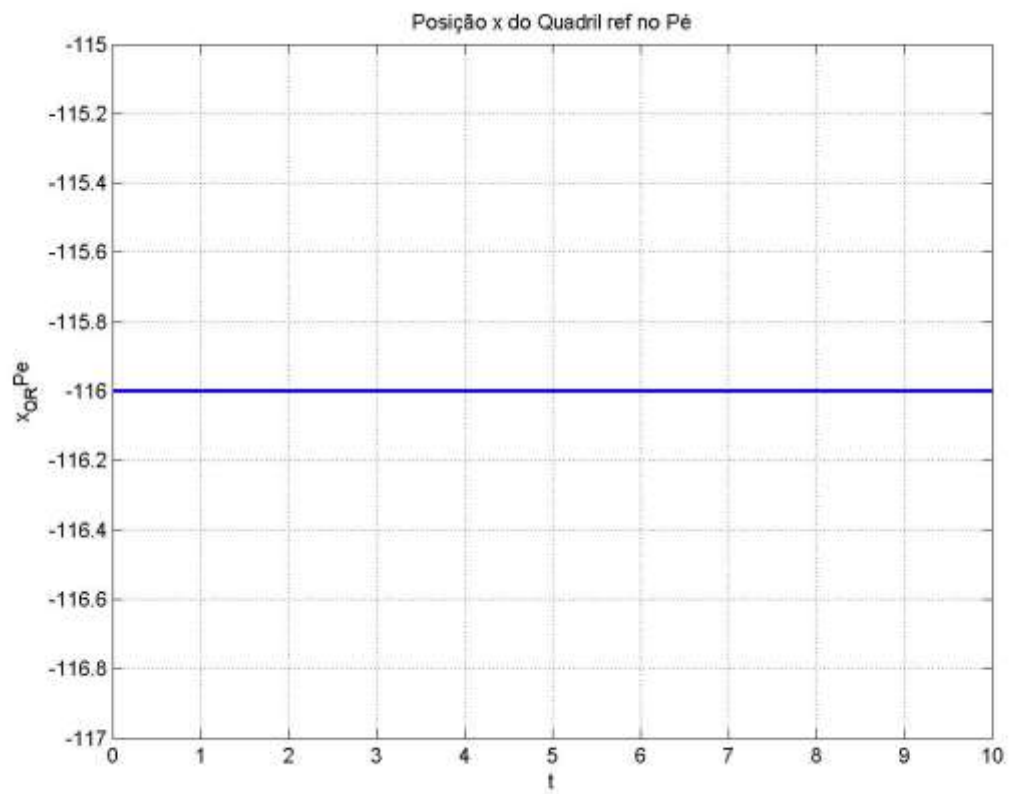
2.3. Posição x, y e z do quadril com referencial no pé

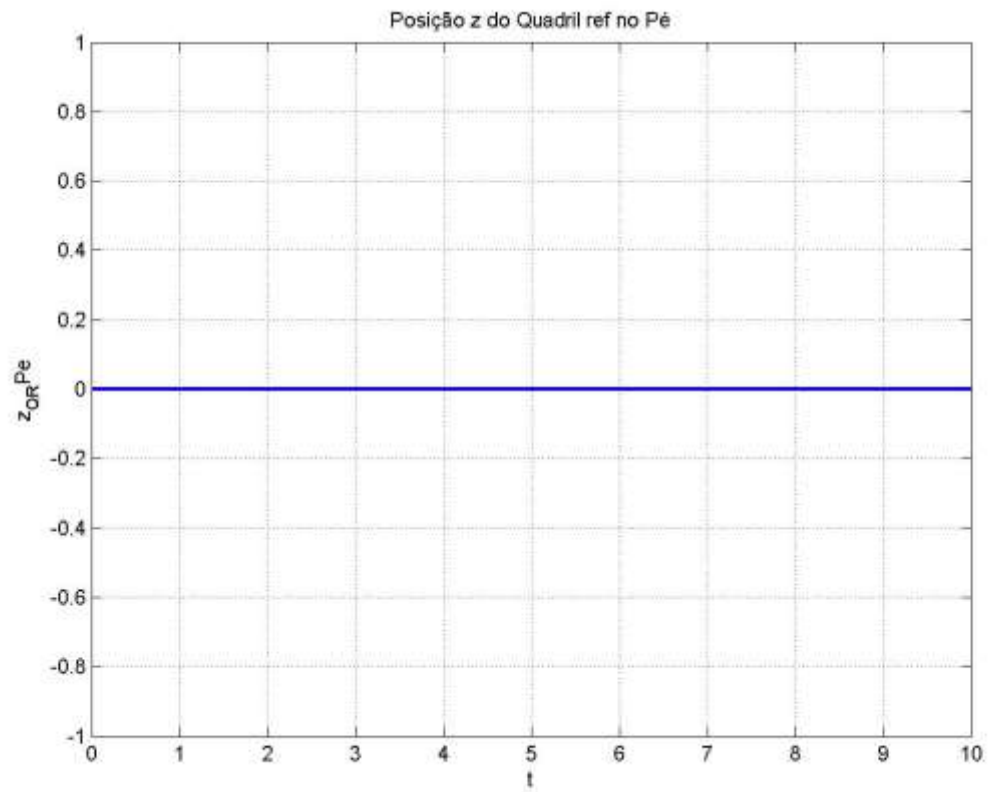
a. Configuração 1 cinemática direta



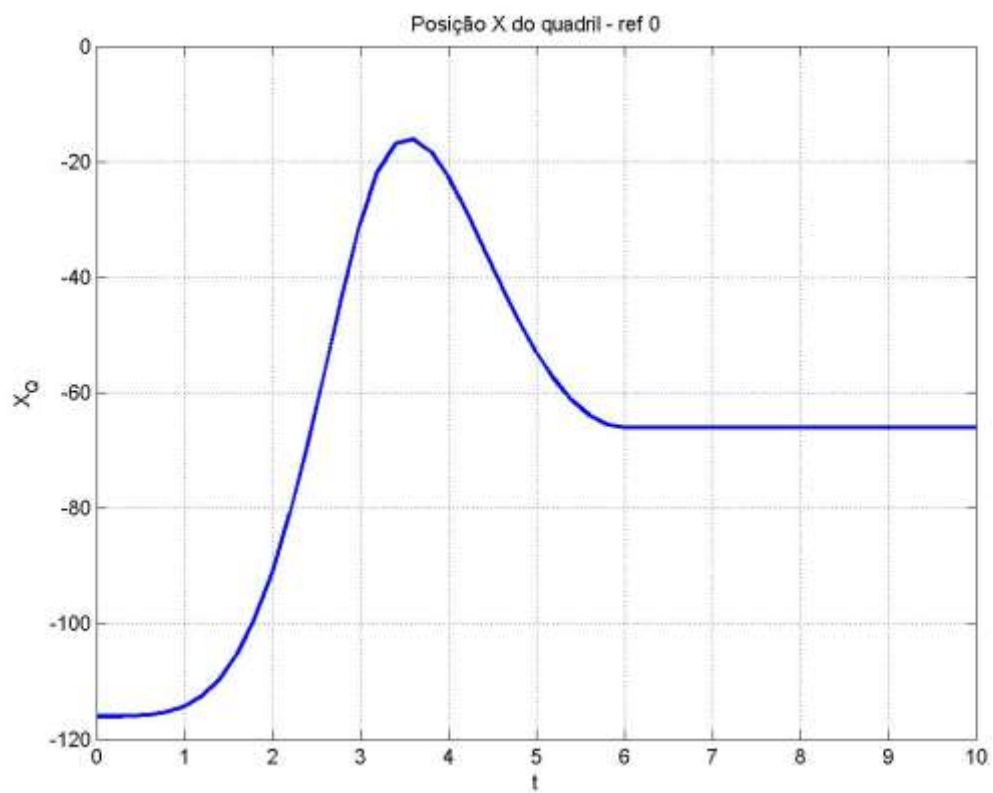


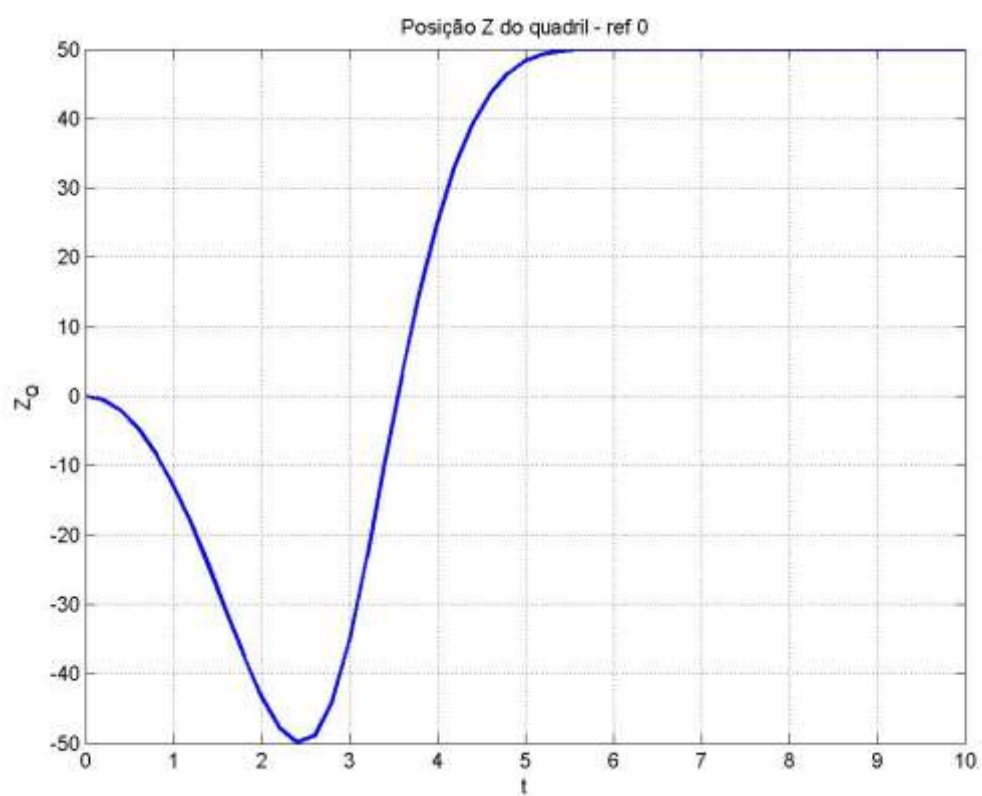
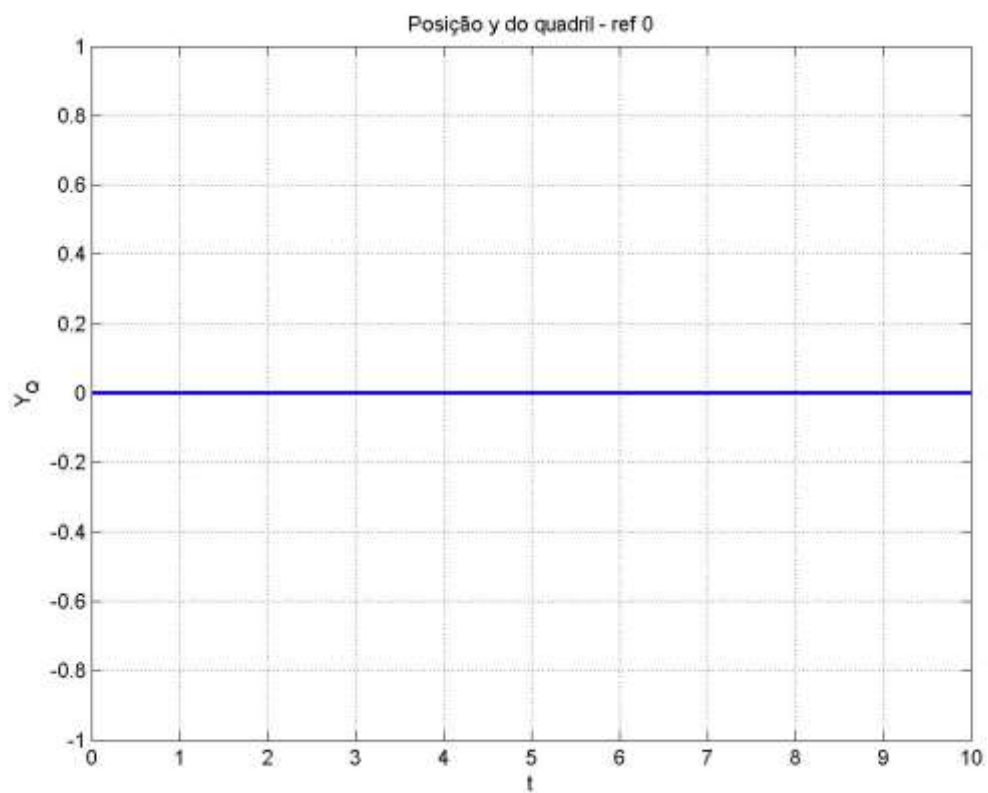
b. Configuração 1 cinemática Diferencial



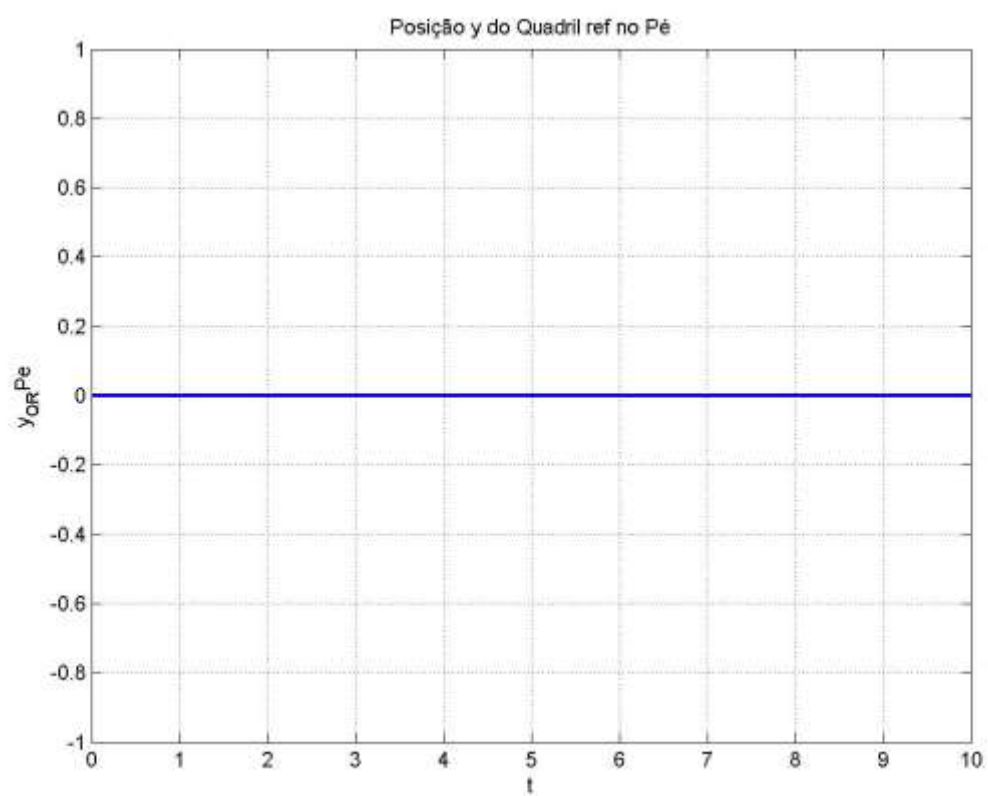
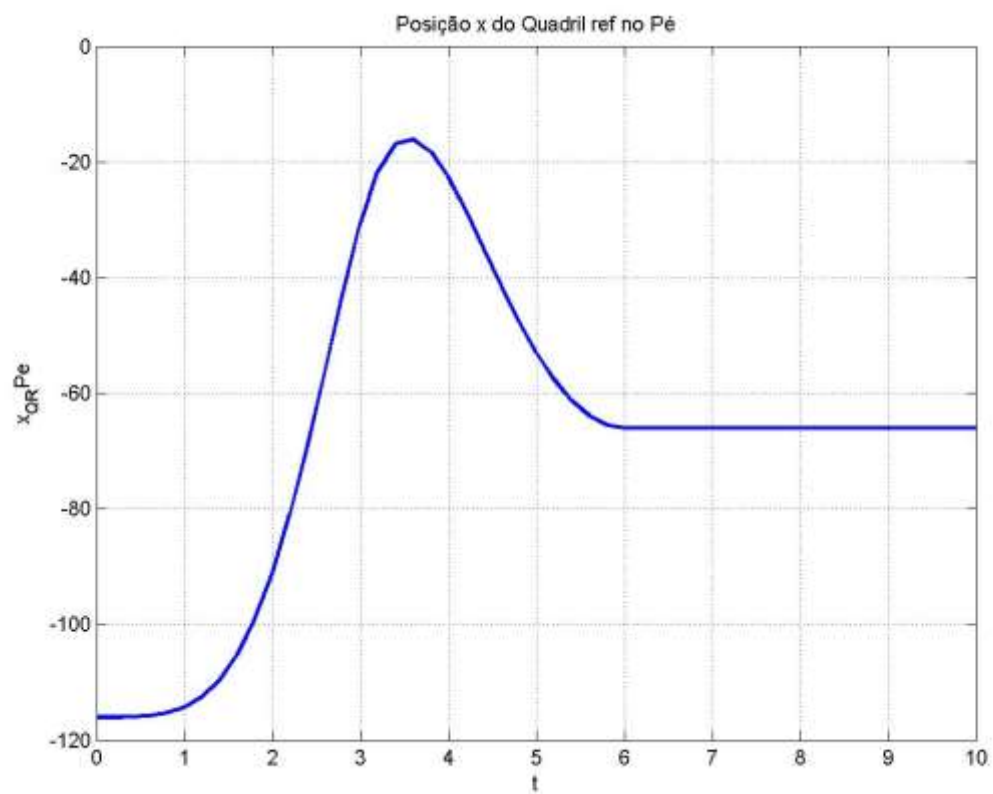


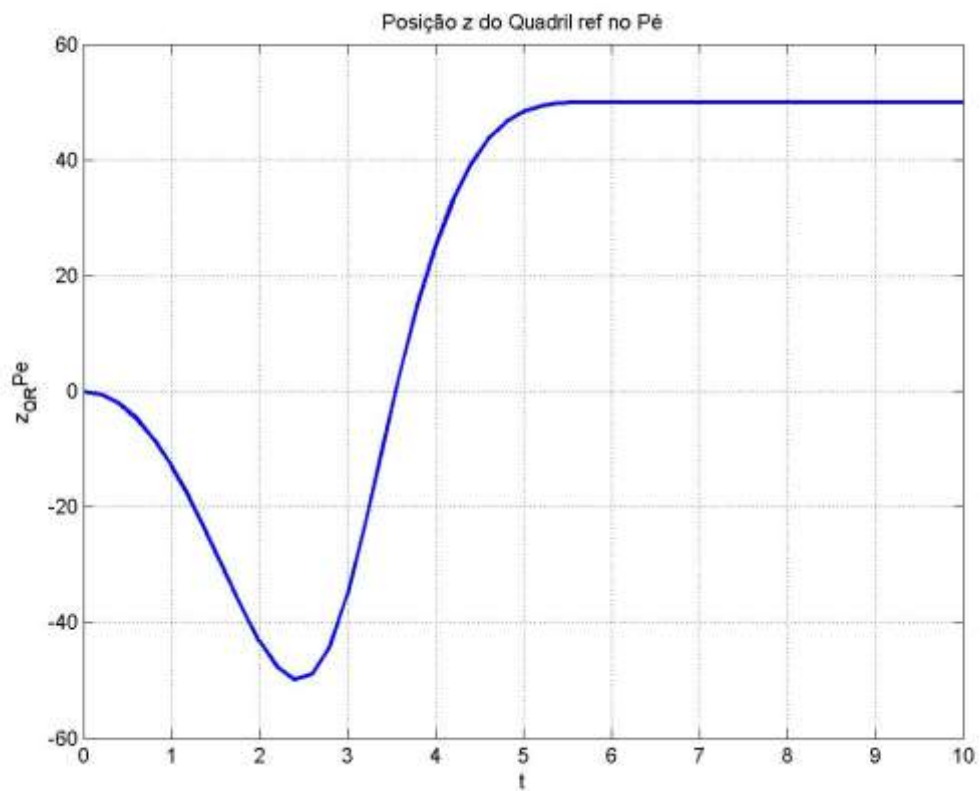
c. Configuração 2 cinemática direta



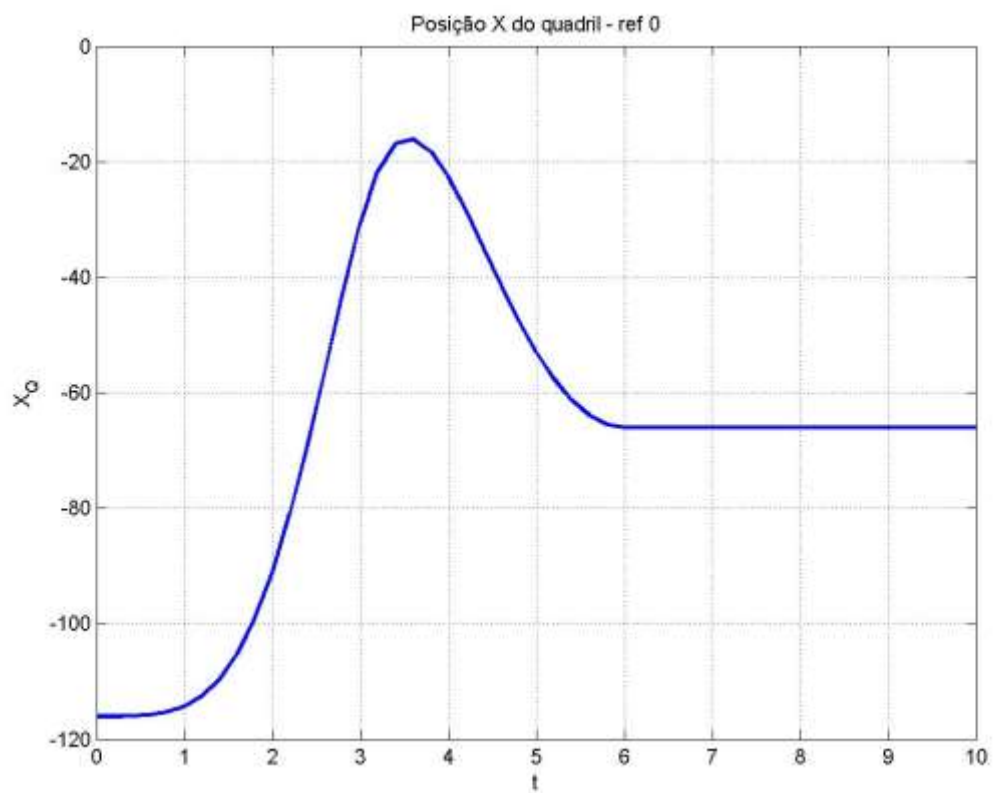


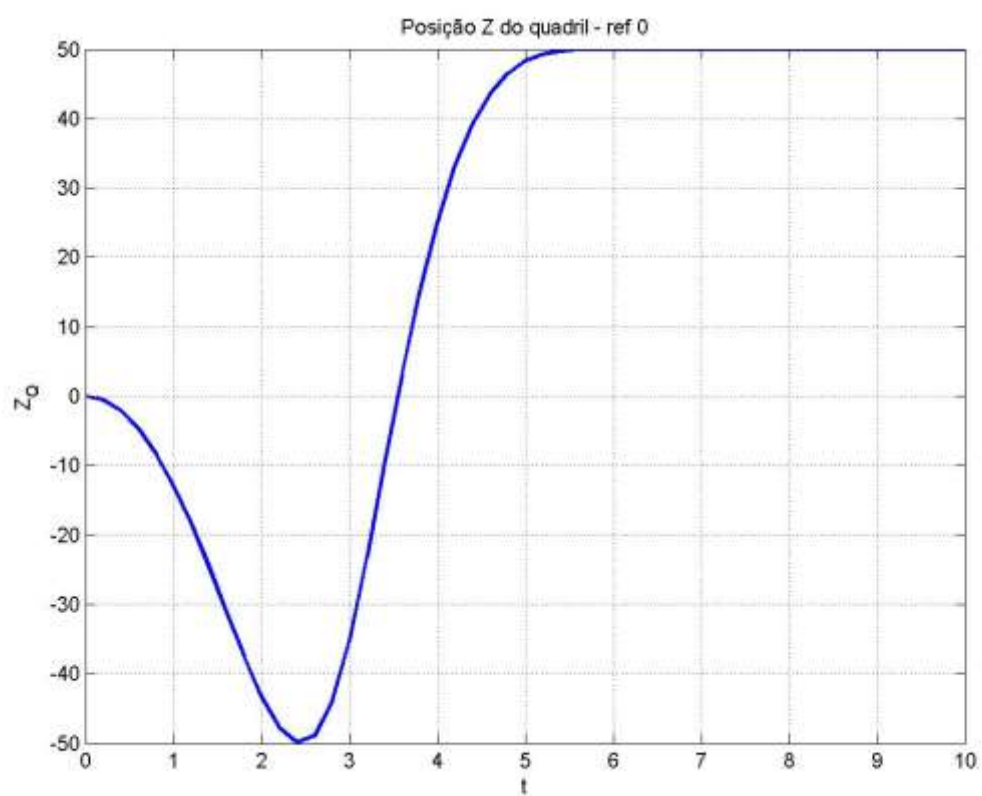
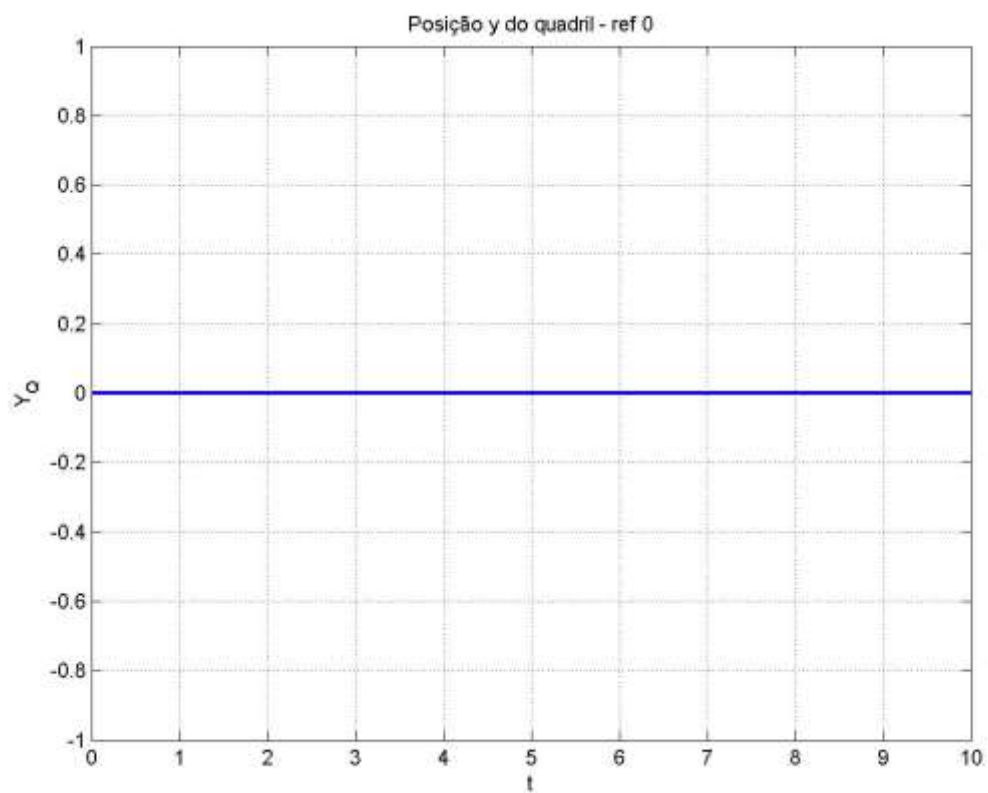
d. Configuração 2 cinemática diferencial





e. Configuração 3 cinemática direta





f. Configuração 3 Cinemática Diferencial

