Matlab Exercise I: Simulating Brownian Motion

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$$\beta_1 = -\frac{2m + \gamma\Delta t}{m + \gamma\Delta t} \tag{1}$$

$$\beta_2 = \frac{m}{m + \gamma\Delta t} \tag{2}$$

$$\beta_3 = \frac{\sqrt{sk_BT\gamma}}{\sqrt{\Delta t}(m + \gamma\Delta t)} \tag{3}$$

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