A1

May 12, 2025

```
[1]: import numpy as np
      import matplotlib.pyplot as plt
[44]: x inf = 5
      y_inf = 3
      t = np.linspace(0, 10, 1000)
      tau = 2.24
      x = x_{inf} * (1 - np.exp(-t / tau))
      y = y_inf * (1 - np.exp(-t / tau))
      xdd = -x_inf * (1 / tau**2) * np.exp(-t / tau)
      ydd = -y_inf * (1 / tau**2) * np.exp(-t / tau)
      theta = np.arctan2(xdd, 1 - ydd)
      for i in range(len(theta)):
          print(f"[{i}] = {xd[i]}\t{yd[i]}\t{theta[i]}")
      dtheta_dt = np.gradient(theta, t)
      ddtheta_dt = np.gradient(dtheta_dt, t)
      # Total thrust
      U = np.sqrt(xdd**2 + (ydd + 1)**2)
      # Compute control inputs
      u1 = 0.5 * (U + ddtheta_dt)
      u2 = 0.5 * (U - ddtheta_dt)
      plt.close()
      # Plot trajectory
      fig, (ax1, ax2) = plt.subplots(2, 1, figsize=(6, 5), sharex=True)
      ax1.plot(t, x, label="x_d(t)")
      ax1.plot(t, y, label="y_d(t)")
      # ax1.plot(t, theta, label=r"$\theta$(t)")
      ax1.set_ylabel("Position")
      ax1.set_title("Straight-Line Asymptotic Trajectory (tau = {:.2f})".format(tau))
      ax1.legend()
      ax1.grid()
      # Plot control inputs
```

```
ax2.plot(t, u1, label="u1(t)")
ax2.plot(t, u2, label="u2(t)")
ax2.axhline(1, color='r', linestyle='--')
ax2.axhline(-1, color='r', linestyle='--')
ax2.set_ylabel("Control Input")
ax2.set_ylim(0, 1.05)
ax2.legend()
ax2.grid()
plt.tight_layout()
plt.show()
# Plot xy path
fig2, (ax3) = plt.subplots(1, 1, figsize=(4, 4))
ax3.plot(xd, yd)
ax3.set_xlabel("x(t)")
ax3.set_ylabel("y(t)")
ax3.set_title("XY Trajectory")
ax3.axis('equal')
ax3.grid()
plt.tight_layout()
plt.show()
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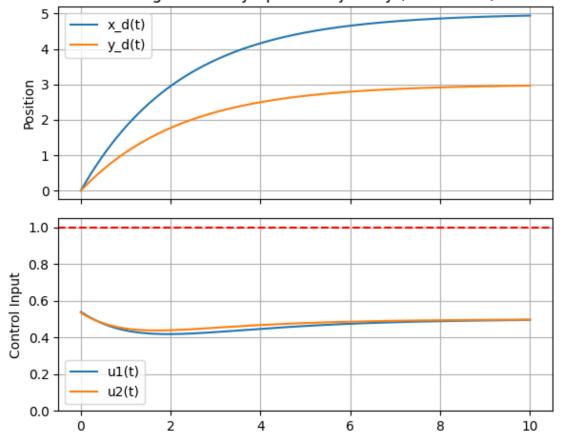
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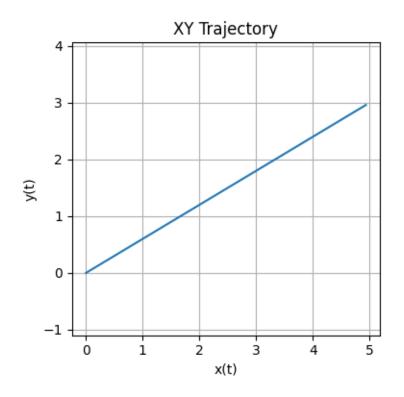
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Straight-Line Asymptotic Trajectory (tau = 2.24)





[]: