

coursera

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Saddle Points

Consider the system of differential equations given by

$$\dot{x}_1 = -x_1 + 3x_2, \qquad \dot{x}_2 = 2x_1 + 4x_2.$$

$$\dot{x}_2 = 2x_1 + 4x_2$$

Determine the eigenvalues and eigenvectors, and sketch the phase portrait.



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