



Item Navigation

Phase Portraits

Determine if the fixed points of the following systems are nodes, saddle points, or spirals, and determine their stability.:

(a) $\dot{x}_1 = -3x_1 + \sqrt{2}x_2$, $\dot{x}_2 = \sqrt{2}x_1 - 2x_2$;

(b) $\dot{x}_1 = x_1 + x_2$, $\dot{x}_2 = 4x_1 + x_2$;

(c) $\dot{x}_1 = -\frac{1}{2}x_1 + x_2$, $\dot{x}_2 = -x_1 - \frac{1}{2}x_2$.

✓ **Completed**

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