

3. Choose from among the given phase portraits the phase portrait for the system $\mathbf{x}' = \begin{pmatrix} 2 & a \\ 4 & 1 \end{pmatrix} \mathbf{x}$ for each given value of a (1 point each, no justification needed for this problem):

(a) $a = 0$. Phase Portrait #

(b) $a = \frac{15}{16}$. Phase Portrait #

(c) $a = -\frac{26}{16}$. Phase Portrait #

