Exercise
$$AO: A = \frac{1}{4}\begin{pmatrix} -3 & 4 & 3 \\ 4 & 0 & 3 \end{pmatrix}$$

$$\int_{A}^{1}A(x) = \text{Det } (A - xI_{3}) = \text{Det } \left(\frac{1}{4}(4A - 4xI_{3}) = \frac{1}{4^{3}}\text{ Net } (4A - 4xI_{3}) = \frac{1}{4^{3}}\text{ Net } (4A - 4xI_{3}) = \frac{1}{4^{3}}\text{ Net } (4A - 4xI_{3})$$

$$= \frac{1}{4^{3}}\begin{vmatrix} -3 - 4x & 4 & 3 \\ 4 & -4x & 3 \\ -4x & 3 & 1 \end{vmatrix} + \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} = \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} = \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} + \frac{1}{4^{3}} = \frac{1}{4^{3}} + \frac{1}{4^{3}} = \frac{1}{4^{3}} + \frac{1}{4^{$$

$$F_{A_{2}} = \ker \left(A + \frac{1}{4}I_{3} \right) = \ker \left(\frac{1}{4} \left(4A + 2I_{3} \right) \right)$$

$$\left(AA + 2I_{3} \right) V = 0 \iff \left(\frac{1}{4} + \frac{1}{4} + \frac{1}{4}I_{3} \right) = 0$$

$$\left(\frac{1}{4} + \frac{1}{4}I_{3} \right) V = 0 \iff \left(\frac{1}{4} + \frac{1}{4}I_{3} \right) = 0$$

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$$\left(\frac{1}{4}A - 4I_{3} \right) V = 0 \iff \left(\frac{1}{4} + \frac{1}{4}I_{3} \right) = 0$$

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$$\left(\frac{1}{4}A - 4I_{3} \right) V = 0 \iff \left(\frac{1}{4} + \frac{1}{4}I_{4} \right) = 0$$

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