$$\left|\begin{array}{ccc|cc} 3 & 1 & 1 & 3 & 1 \\ 5 & 1+\lambda & 3 & 5 & 1+\lambda \\ 6+\lambda^2 & 3 & 6-\lambda^2 & 6+\lambda^2 & 3 \end{array}\right| = 3(1+\lambda)(6-\lambda^2)+3(6+\lambda^2)+15-$$
$$-(6+\lambda^2)(1+\lambda)-27-5(6-\lambda^2)=$$
$$=-4(\lambda-1)(\lambda^2-3)$$

$$\left|\begin{array}{ccc|cc} 3 & 6 & 1 & 3 & 6 \\ 5 & 5 & 1+\lambda & 5 & 5 \\ 6+\lambda^2 & 4 & 3 & 6+\lambda^2 & 4 \end{array}\right| = 9\cdot 5+6(1+\lambda)(6+\lambda^2)+20-$$
$$-(6+\lambda^2)5-12(1+\lambda)-30\cdot 3=$$
$$=(\lambda-1)(6\lambda^2+7\lambda+31)=$$
$$=(\lambda-1)(6\lambda^2+3)$$

Sprzeczny gdy $\lambda \neq 1$

jedno rozw. gdy $\lambda = 1$