

1a)

$$\begin{vmatrix} 1 & \lambda \\ 3 & 4 \end{vmatrix} = 1 \cdot 4 - \lambda \cdot 3 = \boxed{-\lambda}$$

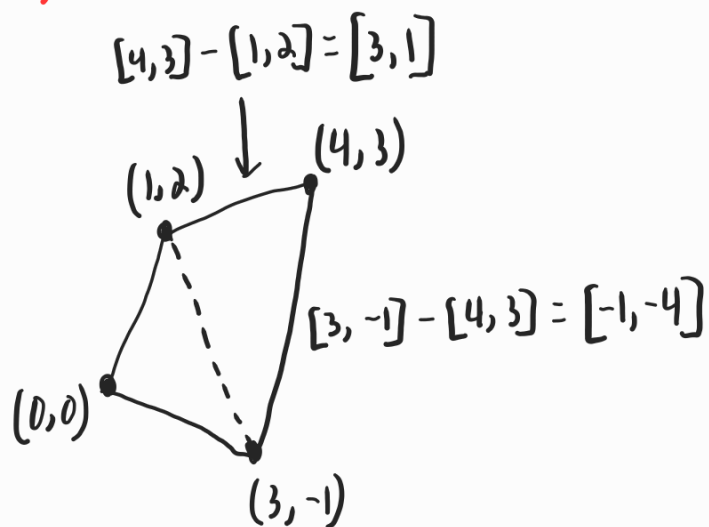
1b)

$$\begin{vmatrix} 1 & -\lambda \\ -3 & 4 \end{vmatrix} = 1 \cdot 4 - (-\lambda)(-3) = \boxed{-\lambda}$$

1c)

$$\begin{vmatrix} 3 & 4 \\ 1 & \lambda \end{vmatrix} = 3 \cdot \lambda - 4 \cdot 1 = \boxed{\lambda}$$

2)



$$A = \text{abs}\left(\frac{1}{\lambda} \begin{vmatrix} 1 & \lambda \\ 3 & -1 \end{vmatrix}\right) + \text{abs}\left(\frac{1}{\lambda} \begin{vmatrix} 3 & 1 \\ -1 & -4 \end{vmatrix}\right) = 3 + \frac{11}{\lambda} = \boxed{\frac{17}{\lambda}}$$