

1	Derivative[c,x] <input type="radio"/> $\approx -4793.64 x - 804.67 y + 30535.1 = 0$
2	Derivative[c,y] <input type="radio"/> $\approx -804.67 x - 6729.79 y + 48513 = 0$
3	Solve[{\$1, \$2},{x, y}] <input type="radio"/> $\approx \{\{x = 5.27, y = 6.58\}\}$
4	O:=Substitute[(x, y),\$3] <input checked="" type="radio"/> $\approx \mathbf{O := (5.27, 6.58)}$
5	cff:=Coefficients[LeftSide[c},{x,y}] <input type="radio"/> $\approx \mathbf{cff := \{-2396.82, -804.67, 30535.1, -3364.9, 48513\}}$
6	a:={{cff(1),cff(2)/2},{cff(2)/2,cff(4)}} <input type="radio"/> $\approx \mathbf{a := \begin{pmatrix} -2396.82 & -402.34 \\ -402.34 & -3364.9 \end{pmatrix}}$
7	u:={{u1},{u2}} <input type="radio"/> $\approx \mathbf{u := \begin{pmatrix} u1 \\ u2 \end{pmatrix}}$
8	v:={{v1},{v2}} <input type="radio"/> $\approx \mathbf{v := \begin{pmatrix} v1 \\ v2 \end{pmatrix}}$
9	yht1:=Element[Transpose[u]*a*v,1,1]=0 $\approx \mathbf{yht1 : -2396.82 u1 v1 - 402.34 u1 v2 - 402.34 u2 v1 - 3364.9 u2 v2 = 0}$

10	$\text{yht2} := \text{Element}[\text{Transpose}[u] \cdot v, 1, 1] = 0$ $\approx \text{yht2} : u_1 v_1 + u_2 v_2 = 0$
11	$\text{yht3} := \text{Substitute}[c, \{x=x(O)+u_1, y=y(O)+u_2\}]$ $\approx \text{yht3} : -2396.82 u_1^2 - 804.67 u_1 u_2 - 3.14 \cdot 10^{-9} u_1 - 3364$
12	$\text{yht4} := \text{Substitute}[c, \{x=x(O)+v_1, y=y(O)+v_2\}]$ $\approx \text{yht4} : -2396.82 v_1^2 - 804.67 v_1 v_2 - 3.14 \cdot 10^{-9} v_1 - 3364$
13	$\text{rtk} := \text{Solve}[\{\text{yht1}, \text{yht2}, \text{yht3}, \text{yht4}\}, \{u_1, u_2, v_1, v_2\}]$ <input type="radio"/> $\approx \text{rtk} := \{\{u_1 = 3.49, u_2 = -1.26, v_1 = -1.01, v_2 = -2.79\}$
14	$P_1 := \text{Substitute}[(x(O)+u_1, y(O)+u_2), \text{Element}[\text{rtk}, 1]]$ <input checked="" type="radio"/> $\approx P_1 := (8.76, 5.32)$
15	$P_2 := \text{Substitute}[(x(O)+v_1, y(O)+v_2), \text{Element}[\text{rtk}, 1]]$ <input checked="" type="radio"/> $\approx P_2 := (4.26, 3.78)$
16	$r_1 := \text{Distance}[O, P_1]$ <input type="radio"/> $\approx r_1 := 3.71$
17	$r_2 := \text{Distance}[O, P_2]$ <input type="radio"/> $\approx r_2 := 2.97$
18	$\text{eksentrisyys} := \text{sqrt}(r_1^2 - r_2^2) / r_1$ <input type="radio"/> $\approx \text{eksentrisyys} := 0.6$
19	