$$V = S - 6x + 6y$$

$$x^{2} + y^{2} = 36$$

$$L(x, y, \lambda) = 3 - 8x + 6y + \lambda(x^{2} + y^{2} - 3c)$$

$$L'_{x} = -8 + 2\lambda x = 0 \quad x = y$$

$$L'_{y} = 6 + 2\lambda y = 0 \quad y = x$$

$$L'_{x} = x^{2} + y^{2} - 36 = 0$$

$$\lambda = \pm \frac{1}{6}$$

a)
$$V = 2x^{2} + 12xy + 32y^{2} + 15$$
 $x^{2} + 16y^{2} = 6y$
 $L(X, y, \lambda) = 2x^{2} + 12xy + 32y^{2} + 15 + \lambda(x^{2} + 16y^{2} - 6y)$
 $L'_{x} = 9x + 12y + 32x = 0$
 $x = -\frac{69y}{2 + \lambda}$
 $L'_{y} = 12x + 64y + 32\lambda y = 0^{-2}$
 $Y = -\frac{3}{16 + 8\lambda} \cdot \frac{-6y}{2 + \lambda}$
 $Y = -\frac{3}{16 + 8\lambda} \cdot \frac{-6y}{2 + \lambda}$
 $(2 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(2 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(2 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(3 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(4 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(5 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(5 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(5 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(7 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(8 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(9 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(9 + \lambda) \cdot (12 + 8\lambda) = 18$
 $(12 + \lambda) \cdot (12 + \lambda) = 18$
 $(13 + \lambda) \cdot (12 + \lambda) = 18$
 $(14 + \lambda) \cdot (12 + \lambda) = 18$
 $(15 + \lambda) \cdot (12 + \lambda) = 18$
 $(16 +$