

Answers to Practice Exam 2, Math 113

Problem 1. The first derivatives are $f_x = 4y - 4x^2$ and $f_y = 4x - 4y^2$. The critical points are where $x = y^2$ and $y = x^2$, namely $(0, 0)$, $(1, 1)$, $(-1, -1)$.

Calculate second derivatives: $f_{xx} = -12x^2$, $f_{xy} = 4$, $f_{yy} = -12y^2$. Then the determinant of the Hessian matrix is $\Delta = 144x^2y^2 - 16$. We have then

$\Delta(0, 0) = -16 < 0$, so $(0, 0)$ is a *saddle point*;

$\Delta(1, 1) = 128 > 0$, and $f_{xx}(1, 1) = -12 < 0$, so $(1, 1)$ is a *local maximum*;

$\Delta(-1, -1) = 128 > 0$, and $f_{xx}(-1, -1) = -12 < 0$, so $(-1, -1)$ is a *local maximum*.

Problem 2. We use Lagrange Multipliers to solve this problem. The circle is our constraint; write it as $g(x, y) = x^2 + y^2 - 25 = 0$. Then we have $\nabla T = \lambda \nabla g$, three equations and three unknowns. The equations are:

$$8x - 4y = 2x\lambda \quad (1)$$

$$-4x + 2y = 2y\lambda \quad (2)$$

$$x^2 + y^2 - 25 = 0 \quad (3)$$

Sneaky solution: if we multiply the second equation by -2 , then it says $8x - 4y = -4y\lambda$, which looks a lot like the first equation. This implies $2x\lambda = -4y\lambda$, so either

$$x = -2y \quad \text{or} \quad \lambda = 0 \quad .$$

If $x = -2y$, then using the constraint $x^2 + y^2 = 25$, we find two points: $(-2\sqrt{5}, \sqrt{5})$ and $(2\sqrt{5}, -\sqrt{5})$.

If $\lambda = 0$, then the first equation implies that $8x - 4y = 0$, i.e., $y = 2x$. Using the circle equation, we find two more points: $(\sqrt{5}, 2\sqrt{5})$ and $(-\sqrt{5}, -2\sqrt{5})$. We evaluate the temperature on these four points: $T(-2\sqrt{5}, \sqrt{5}) = 125$, $T(2\sqrt{5}, -\sqrt{5}) = 125$, $T(\sqrt{5}, 2\sqrt{5}) = 0$, $T(-\sqrt{5}, -2\sqrt{5}) = 0$.

So the ant encounters a minimum temperature of 0 and a maximum temperature of 125.

Non-sneaky solution: Solve for λ :

$$\lambda = \frac{4x - 2y}{x} = \frac{-2x + y}{y} \quad .$$

Cross-multiply, and substitute $y = \sqrt{25 - x^2}$. Square both sides to remove the radical, and you should find that $(x^2 - 20)(x^2 - 5) = 0$, which gives the same four x values above. You must be careful choosing the sign of y so that you find only the four (not eight) points that satisfy our three equations.

Problem 3. (Sorry about the algebra on this one.) The initial velocity is $\vec{v}_0 = (4 \cos 60, 4 \sin 60) = (2, 2\sqrt{3})$. Then we get the two equations of motion:

$$\begin{aligned} x(t) &= x(0) + 2t &= 2t \\ y(t) &= y(0) + 2\sqrt{3}t - 4.9t^2 &= 3 + 2\sqrt{3}t - 4.9t^2 \end{aligned}$$

We set $y(t) = 0$, and solve for the time t_{splash} it takes the diver to hit the water. We get $t_{\text{splash}} \approx 1.212 \text{ s}$ and she travels $x(t_{\text{splash}}) \approx 2.424 \text{ m}$ out before landing.

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