

**Problem 1.** If  $z = f(x, y)$ , where  $f$  is differentiable, and

$$\begin{array}{rcl} x & = & g(t) \\ g(3) & = & 4 \\ g'(3) & = & 5 \\ f_x(4, 5) & = & 6 \\ f_y(4, 5) & = & -8 \end{array} \quad \begin{array}{rcl} y & = & h(t) \\ h(3) & = & 5 \\ h'(3) & = & -4 \\ f_x(3, 3) & = & 1 \\ f_y(3, 3) & = & 10 \end{array}$$

find  $dz/dt$  when  $t = 3$ .

**Problem 2.** If  $R = \ln(w^2 + x^2 + y^2)$  and  $u = x + 2y$ ,  $v = 2x - y$  and  $w = 2xy$ , compute  $\partial R/\partial x$  and  $\partial R/\partial y$  when  $x = y = 1$ .

**Problem 3.** The tangent line to the level curve  $f(x, y) = 5$  at the point  $(1, 2)$  has the equation  $3x - 4y = -5$ . Find all the possible directions of  $\nabla f(1, 2)$ . Specify your answers as unit vectors.

**Problem 4.** The plane  $4x - 3y + 8z = 40$  intersects the cone  $z^2 = x^2 + y^2$  in an ellipse. Find an equation for the tangent line to this ellipse at the point  $(3, 4, 5)$ .

**Problem 5.** Find all points at which the function  $f(x, y) = x^2 + y^2 - 2x - 4y$  increases most rapidly in the direction of  $\mathbf{i} + \mathbf{j}$ .

**Problem 6.** Let  $\mathbf{u} = \langle 3/5, 4/5 \rangle$  and  $\mathbf{v} = \langle 5/13, -12/13 \rangle$ . Suppose  $f$  is differentiable at  $(a, b)$  and that  $D_{\mathbf{u}}f(a, b) = 2$  and  $D_{\mathbf{v}}f(a, b) = -1$ . Find  $f_x(a, b)$  and  $f_y(a, b)$ .

**Problem 7.** Find and classify the critical points of the function  $f(x, y) = x^3 - 12xy + 8y^3$ .

**Problem 8.** Find the absolute maximum and minimum values of  $f(x, y) = x^2 + y^2$  subject to the constraint  $2x + 3y = 6$ .

**Problem 9.**

- Find the absolute maximum value of the function  $f(x, y, z) = (xyz)^{1/3}$  given that  $x, y$  and  $z$  are nonnegative numbers satisfying  $x + y + z = 1$ . Carefully justify your answer.

# 2009 Spring Practice Exam

**Lingsheng Yao**

**2009 Spring Practice Exam:**

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