

# EXERCISE SHEET

(Sheet 10: partial differential equations)

Consider  $\Omega := \{x \in \mathbb{R}^2 : x_1 > 0, x_2 > 0\}$  (upper right quadrant) and  $\partial\Omega = \{x \in \mathbb{R}^2 : x_1 = 0 \text{ or } x_2 = 0\}$ .

(a) Assume the inhomogeneous boundary conditions:  $g_1(x_2) = x_2^2$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

solution. Assume  $\Delta u = 0$  in  $\Omega$ ,  $u|_{\partial\Omega} = g$  on  $\partial\Omega$ ,  $u|_{\partial\Omega} = 0$  on  $\partial\Omega \setminus \{0\}$ .

Answer:  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is  $\Delta u = 0$  in  $\Omega$ ,  $u|_{\partial\Omega} = g$  on  $\partial\Omega$ ,  $u|_{\partial\Omega} = 0$  on  $\partial\Omega \setminus \{0\}$ .

(b) Check the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ .

Answer:  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is  $\Delta u = 0$  in  $\Omega$ ,  $u|_{\partial\Omega} = 0$  on  $\partial\Omega$ .

(c) Check the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ .

(d) Assume the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

solution. Assume  $\Delta u = 0$  in  $\Omega$ ,  $u|_{\partial\Omega} = g$  on  $\partial\Omega$ ,  $u|_{\partial\Omega} = 0$  on  $\partial\Omega \setminus \{0\}$ .

(e) Check the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

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(f) Check the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

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(g) Check the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

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(i) Assume the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the solution. Assume  $\Delta u = 0$  in  $\Omega$ ,  $u|_{\partial\Omega} = g$  on  $\partial\Omega$ ,  $u|_{\partial\Omega} = 0$  on  $\partial\Omega \setminus \{0\}$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

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(k) Check the homogeneous conditions:  $g_1(x_2) = 0$ ,  $g_2(x_1) = 0$ ,  $g_3(x_1, x_2) = 0$ . Assume  $u(x_1, x_2) = \frac{x_1^2 x_2^2}{4}$  is the

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