**Midterm questions   
for the course**

**DIFFERENTIAL GAMES   
AND OPTIMIZATION CONTROL BOUNDARY PROBLEMS**

1. Find Gateaux derivative for the function 
2. Determine gradient method for the function 
3. Find Gateaux derivative for the function 
4. Determine gradient method for the function 
5. Find Gateaux derivative for the functional 
6. Determine gradient method for the functional 
7. Find Gateaux derivative for the functional 
8. Determine gradient method for the functional 
9. Find Gateaux derivative for the functional 
10. Determine gradient method for the functional 