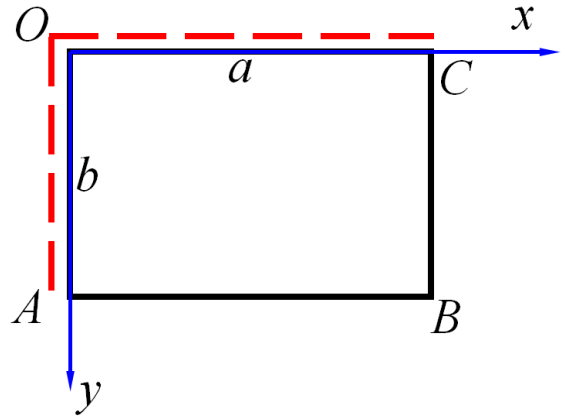


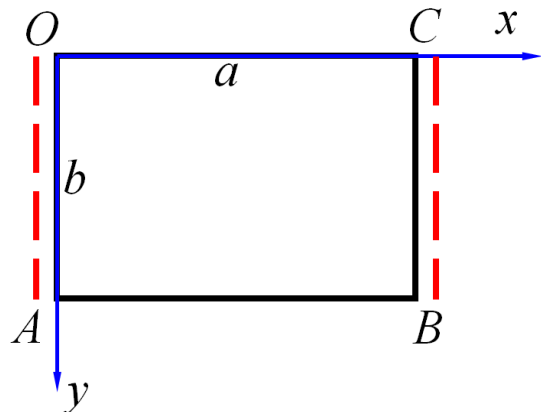
Name:

Student ID:

1. The rectangular thin plate shown below is subjected to a concentrated transverse load F at the corner B . Show that $w = Axy$ produces the correct solution. Determine the constant A , deflection w , internal forces, and reaction forces.



2. The rectangular thin plate shown below is subjected to uniformly distributed moment M along the two simply supported edges (OA , BC) and νM along the two free edges (OC , AB). Show that the resultant deflection w is a function of x only. Determine the deflection w , internal forces, and reaction forces.

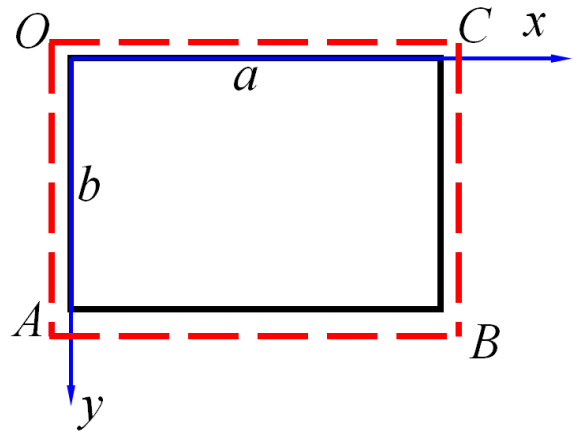


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Student ID:

3. The rectangular thin plate shown below is subjected to distributed transverse loading $q = q_0 \sin \pi x/a \sin \pi y/b$. Show that $w = A \sin \pi x/a \sin \pi y/b$ produces the correct solution.

Determine the constant A , the deflection w , and internal forces.



4. The rectangular thin plate shown below is subjected to a concentrated transverse load F at the center. Determine the maximum deflection w_{\max} .

