

## QUESTION

1. A rectangular plate is shown in the figure. The plate is subjected to a uniform load of  $100 \text{ N/m}^2$  acting perpendicular to its surface. The dimensions of the plate are  $2 \text{ m}$  by  $3 \text{ m}$ . The load is applied over the entire surface of the plate. Determine the resultant force and its location from the bottom-left corner of the plate.

