Homework Problem H4.A

Given: Spheres A and B have masses of m_A and m_B, respectively. All surfaces are smooth.

Find:
   a) Determine the reaction force of sphere A acting on sphere B.
   b) Determine the reaction forces of the channel at the 3 points of contact (left, right and bottom).

Use the following parameters in your analysis: $m_A = 45$ kg and $m_B = 20$ kg.