The diagram shown below right depicts a region of space. The dashed curves indicate positions of equal potential energy for a test charge \( +q_{\text{test}} \) that is placed at various locations within this region. Three such locations \((A, B, \text{ and } C)\) are labeled.

It is known that the potential energy at location \( A \) is greater than that at locations \( B \) and \( C \).

A. At each location, draw an arrow to indicate the direction in which the test charge \( +q_{\text{test}} \) would move when released from rest at that location. Explain your reasoning.

B. Rank the locations \( A, B, \) and \( C \) according to the magnitude of the force that would be exerted on the test charge \( +q_{\text{test}} \) at those locations, from greatest to smallest. Explain your reasoning.