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 $(A, B$, 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.

