

Quiz 0

Friday, September 3

In a certain coordinate system, a neutron is located at the position $\vec{r}_n = \langle -1, 3, 0 \rangle$ relative to the origin. A proton is located at $\vec{r}_p = \langle 5, 2, 0 \rangle$, relative to the same origin.

1. What is the position of the proton *relative to* that of the neutron?
2. What is the distance between the proton and neutron?
3. What is the unit vector pointing from neutron to proton?