Ph 202H/212H
W09 Homework – Due Wednesday January 14

Let $\vec{\mathbf{A}} = \langle 3, -1, 4 \rangle$ and $\vec{\mathbf{B}} = \langle -2, 3, -1 \rangle$

1. a) Find $\vec{\mathbf{A}} \times \vec{\mathbf{B}}$ (in terms of components).

   b) Find $\vec{\mathbf{B}} \times \vec{\mathbf{A}}$.

2. Find $\left|\vec{\mathbf{A}}\right|$, $\left|\vec{\mathbf{B}}\right|$, and $\left|\vec{\mathbf{A}} \times \vec{\mathbf{B}}\right|$. From these values, find the angle θ between $\vec{\mathbf{A}}$ and $\vec{\mathbf{B}}$.