|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | **PH 201 Post-Lab 02** | **Vectors** | **Name** |  | |
|  |
| 1. A force is 7.3 N at an angle of 143˚. What are the x and y components of this force? (if the component is along a negative axis, then you should include the minus sign.) |
|  |
| |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | X – Component |  |  | Y – Component |  | |
|  |
| 2. A force has components of 3.9 N along the -x axis and -5.8 N along the -y axis. What is the magnitude of the force and the angle (0 to 360˚) at which this force is directed? |
|  |
| |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Magnitude |  |  | Direction |  | |
|  |
| **Over 🡪** |
|  |
| 3. Consider the vectors A which is 6.5 units at 150˚ and B which is 4.25 units at 300˚. Find the resultant and the Equilibrant vectors (Magnitude and direction). |
|  |
|  |
| |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |
|  |
| Resultant Vector |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Magnitude |  |  | Direction |  | |
|  |
| Equilibrant Vector |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Magnitude |  |  | Direction |  | |
|  |
|  |
|  |