Vector:

Unit vectors for each axis:

|  |  |  |
| --- | --- | --- |
| **x** | **y** | **z** |
|  |  |  |

The angle between vector and each axis:

|  |  |  |
| --- | --- | --- |
| **x** | **y** | **z** |
|  |  |  |

The above simplifies into:

|  |  |  |
| --- | --- | --- |
| **x** | **y** | **z** |
|  |  |  |

The magnitude of a vector: