Suppose you have a point with coordinates x, y, and z. After rotating this point by Θ (specified in radians), the location will have new coordinates which we will call x', y', and z'

After a Θ rotation around the x-axis:

$$x' = x$$
$$y' = y\,cos(\Theta) - z\,sin(\Theta)$$
$$z' = y\,sin(\Theta) + z\,cos(\Theta)$$

After a Θ rotation around the y-axis:

$$x' = x\,cos(\Theta) + z\,sin(\Theta)$$
$$y' = y$$
$$z' = -x\,sin(\Theta) + z\,cos(\Theta)$$

After a Θ rotation around the z-axis:

$$x' = x\,cos(\Theta) - y\,sin(\Theta)$$
$$y' = x\,sin(\Theta) + y\,cos(\Theta)$$
$$z' = z$$