**Constants**

**Waist Motor Angle Calculations**

**Arm Radius on RZ plane**

**Cosine Law Trigonometry Referencing q1**

**Two tangent inverse trigonometry Referencing Horizontal**

**Calculate and**

**Constrain Upper Arm to not Exceed Physical Limitations**

**Constrain Lower Arm to not Exceed Physical Limitations**

**Calculate the Shoulder and Elbow Motor Angles**