A graph of a mathematical equation

Description automatically generated with medium confidence

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| **Direct Kinematics** | **Analysis** |
| A diagram of a mathematical equation  Description automatically generated with medium confidence | We observe that:  which is the direct kinematics analysis for the robot for its two first articulations  We set |
| **Inversed Kinematics** | **Analysis** |
| A drawing of a triangle with a line and a point  Description automatically generated with medium confidence | From Pythagora’s theorem:  Moreover |

So we take:

Now for θ1:

but what if we don’t know φ? Well, in that case:

Let’s say that so: