Base (0, 0, 0)

Me (3.9km, 9.7km, 0km)

Base-Satellite 270° (WEST), 60° above horizon

Base-Satellite ground distance = 300km / tan(60°) = 173.205km

Me-Satellite Vector = < (-3.9 – 173.205), (-9.7+0), (0+300) > = < -177.105, -9.7, 300 >

Me-Satellite Magnitude = sqrt( (3.9-173.205)^2 + (9.7)^2 + (300)^2 ) = 344.6133

Me-Satellite Unit Vector = Me-Satellite Vector / Me-Satellite Magnitude

Me-Satellite Unit Vector = <-0.5139m, -0.0281m, 0.8705m>

A screenshot of a computer

Description automatically generated