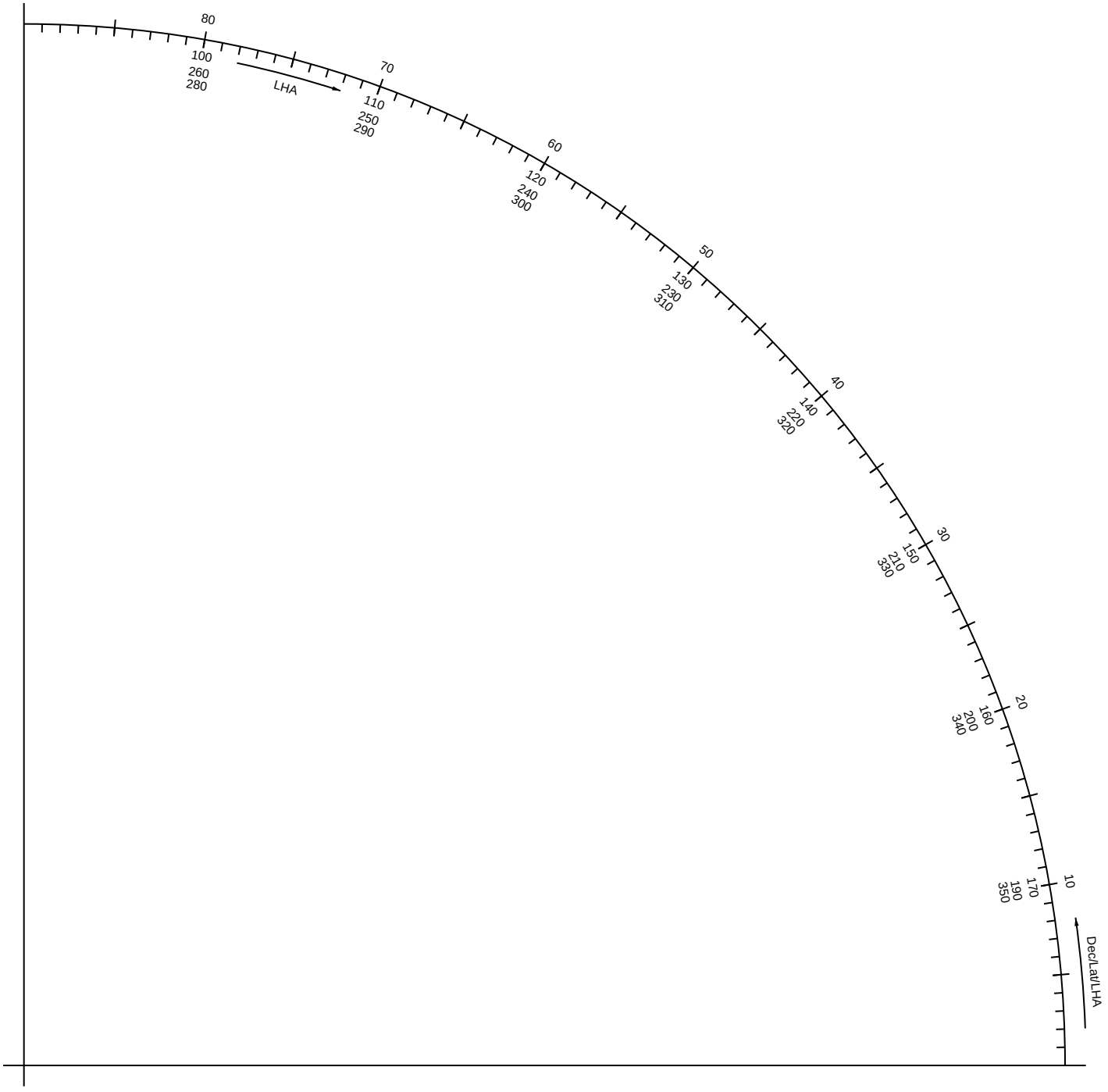
Worksheet for graphical Sight-Reduction

Observer at ____.__° N/S Latitude
Star with ____.__° N/S Declination and ____.__° LHA



Hc = aSin(Sin(Lat)*Sin(Dec) + Cos(Lat)*Cos(Dec)*Cos(LHA))

Cos(Dec)*Cos(Lat)*Cos(LHA)	is positive/negative	}	*if same sign: add components or*
Sin(Lat)*Sin(Dec)	is positive/negative	}	*if opposite sign: subtract components*

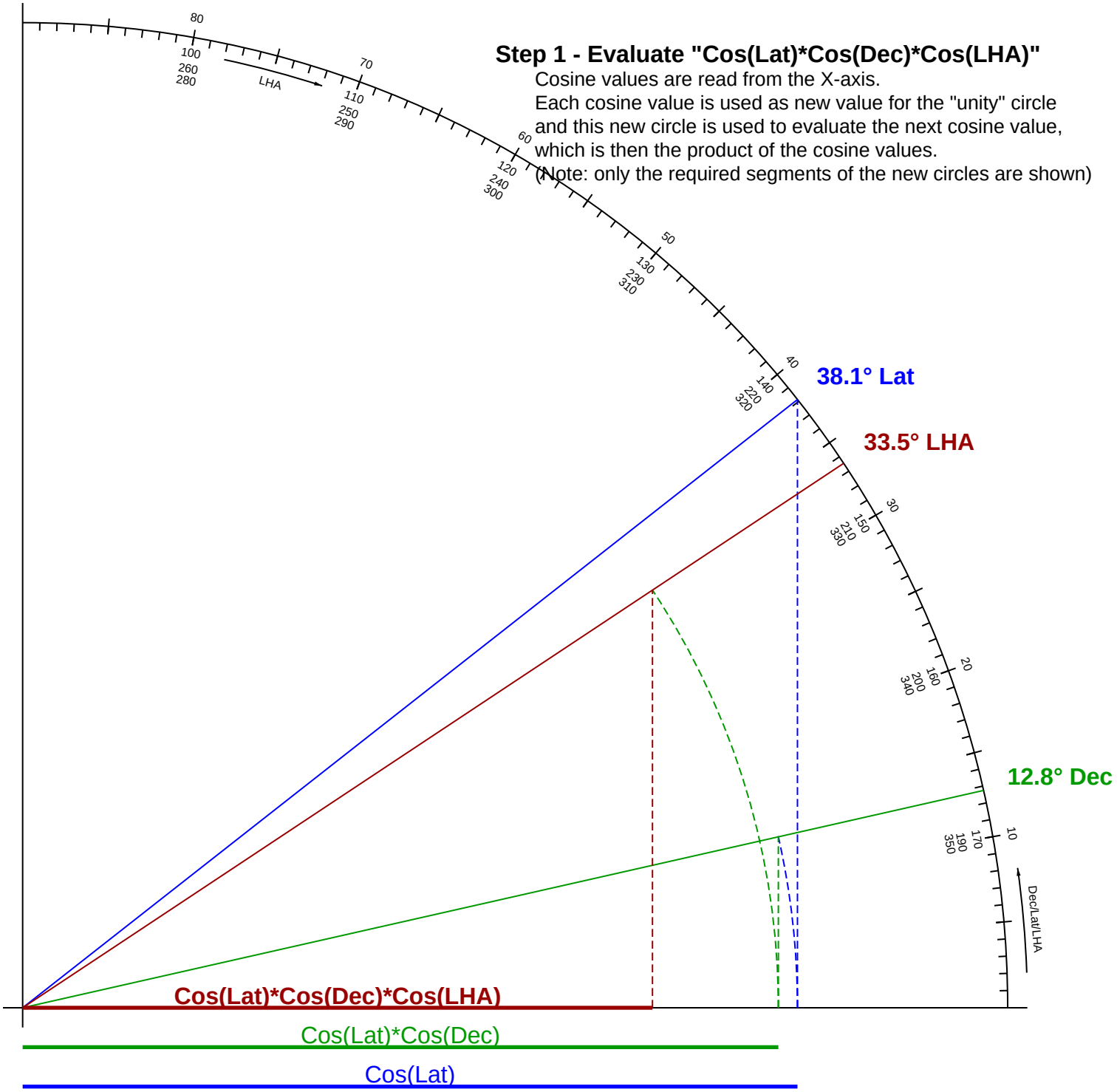
Z = aSin(Sin(LHA)*Cos(Dec) / Cos(Hc))

Worksheet for graphical Sight-Reduction - Example -Step 1

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)

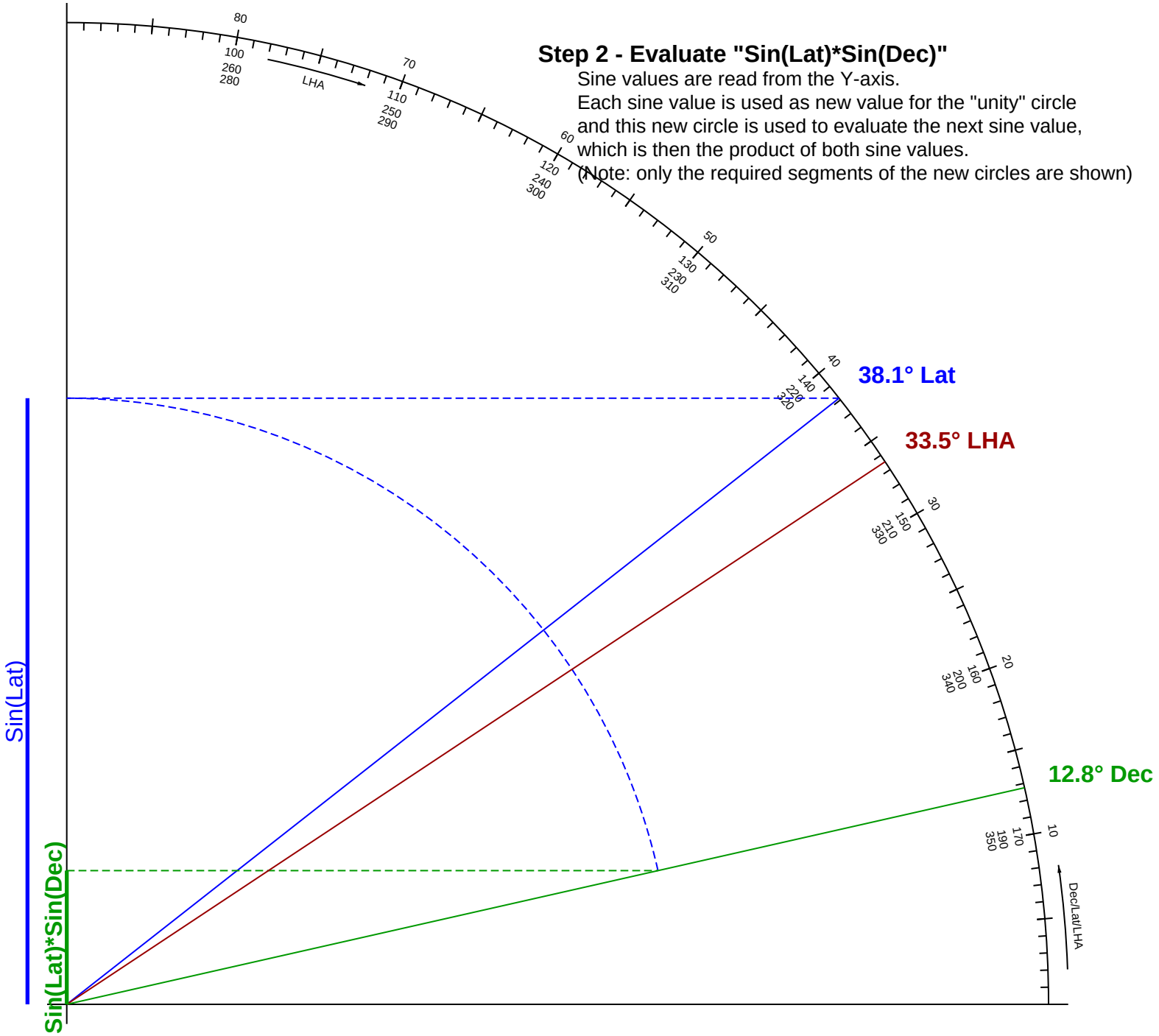


Worksheet for graphical Sight-Reduction - Example -Step 2

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)

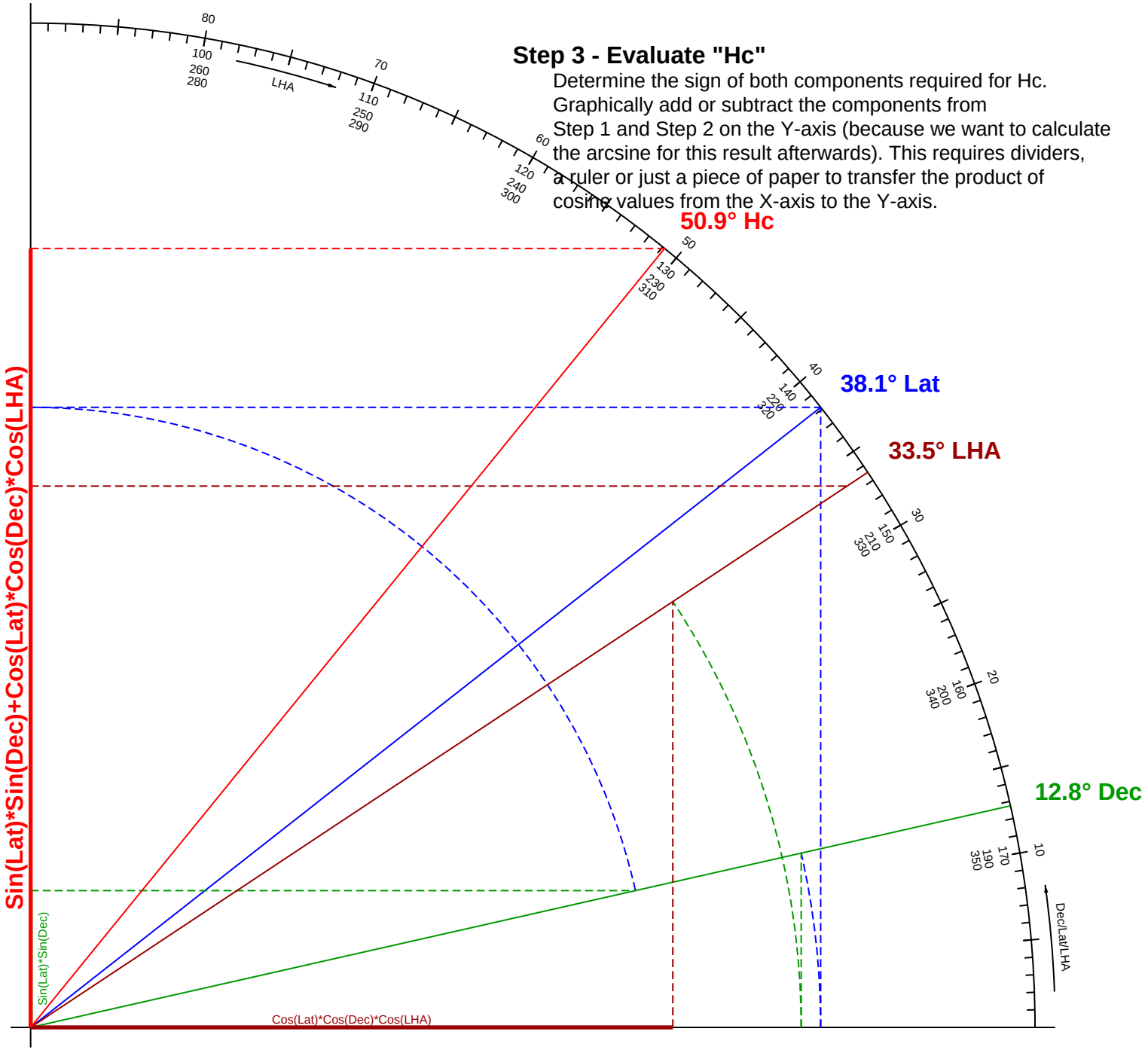


Worksheet for graphical Sight-Reduction - Example -Step 3

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)



Hc = aSin(Sin(Dec)*Sin(Lat) + Cos(Dec)*Cos(Lat)*Cos(LHA))

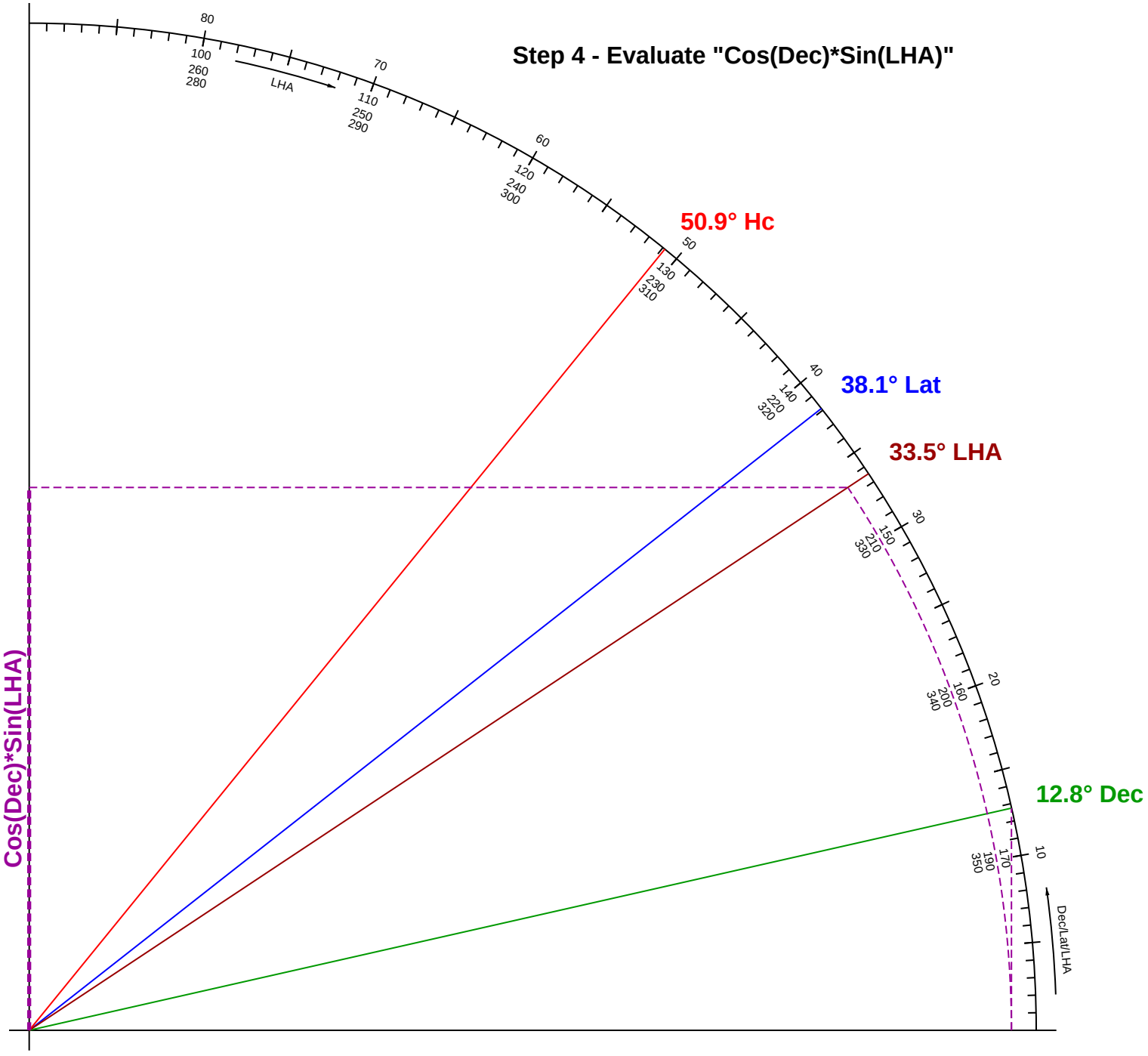
Cos(Lat)*Cos(Dec)*Cos(LHA)	is positive	} ADD components
Sin(Lat)*Sin(Dec)	is positive	

Worksheet for graphical Sight-Reduction - Example -Step 4

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)



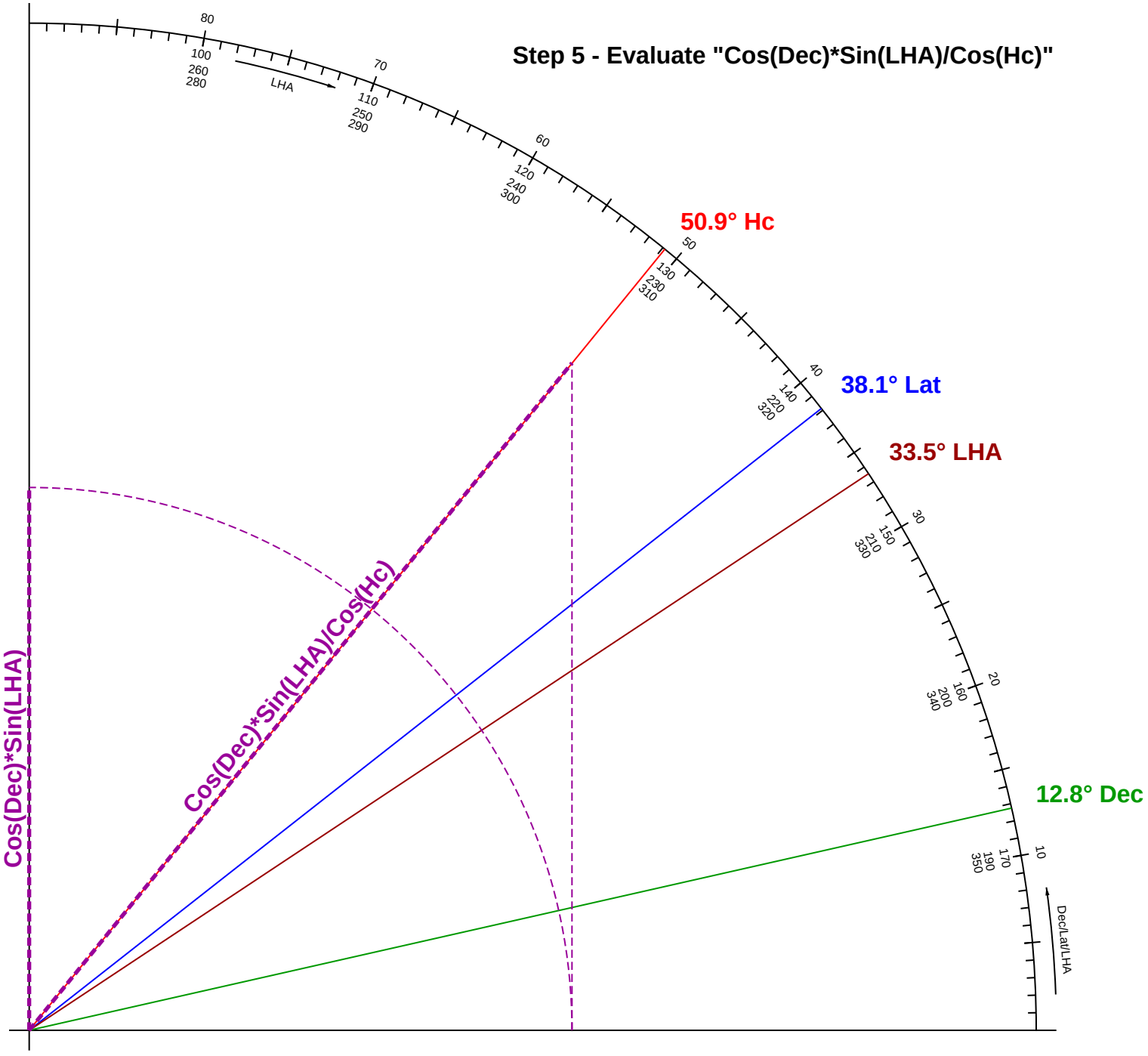
Z = aSin(Cos(Dec)*Sin(LHA) / Cos(Hc))

Worksheet for graphical Sight-Reduction - Example -Step 5

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)



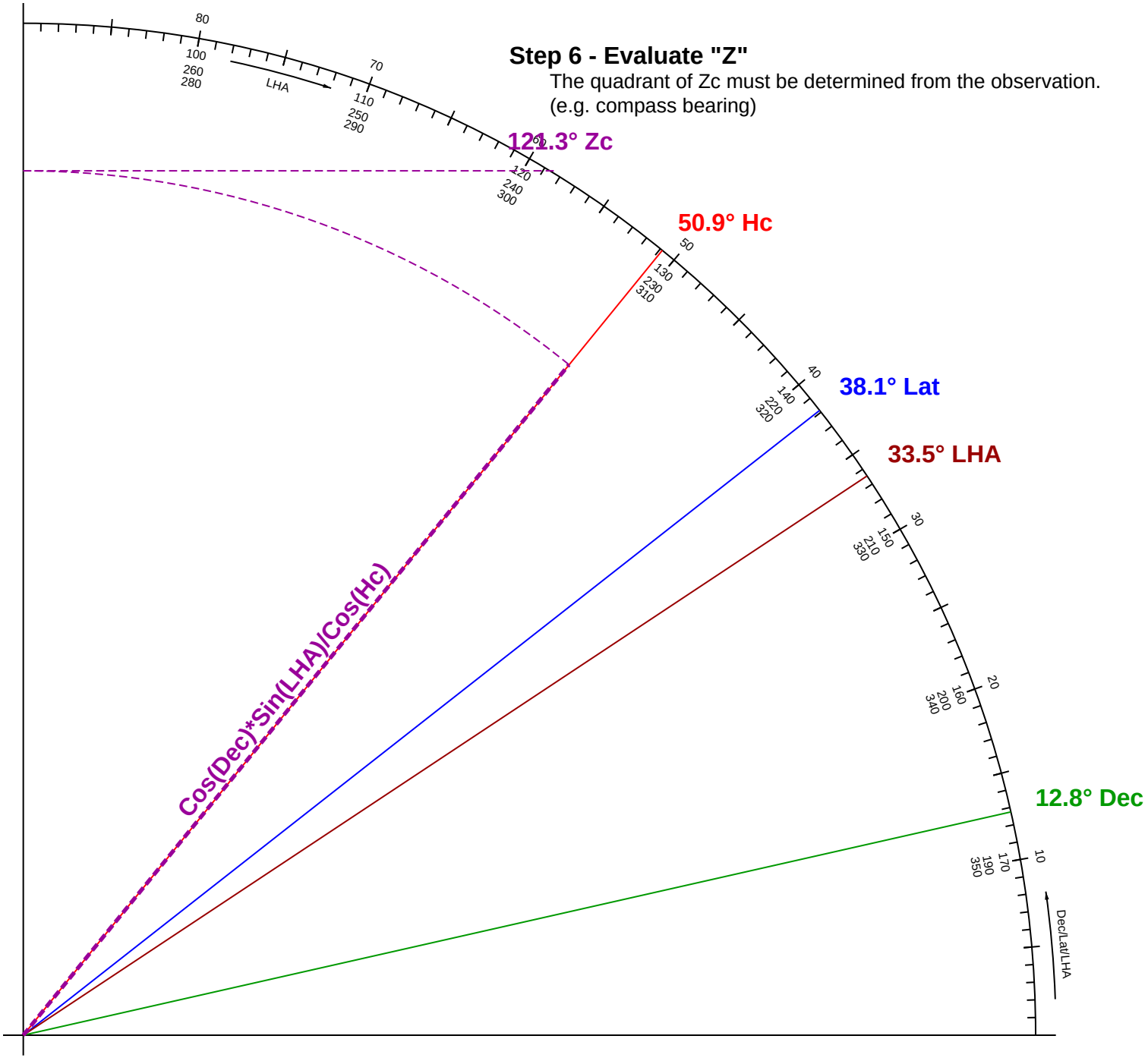
Z = aSin(Cos(Dec)*Sin(LHA) / Cos(Hc))

Worksheet for graphical Sight-Reduction - Example -Step 6

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)



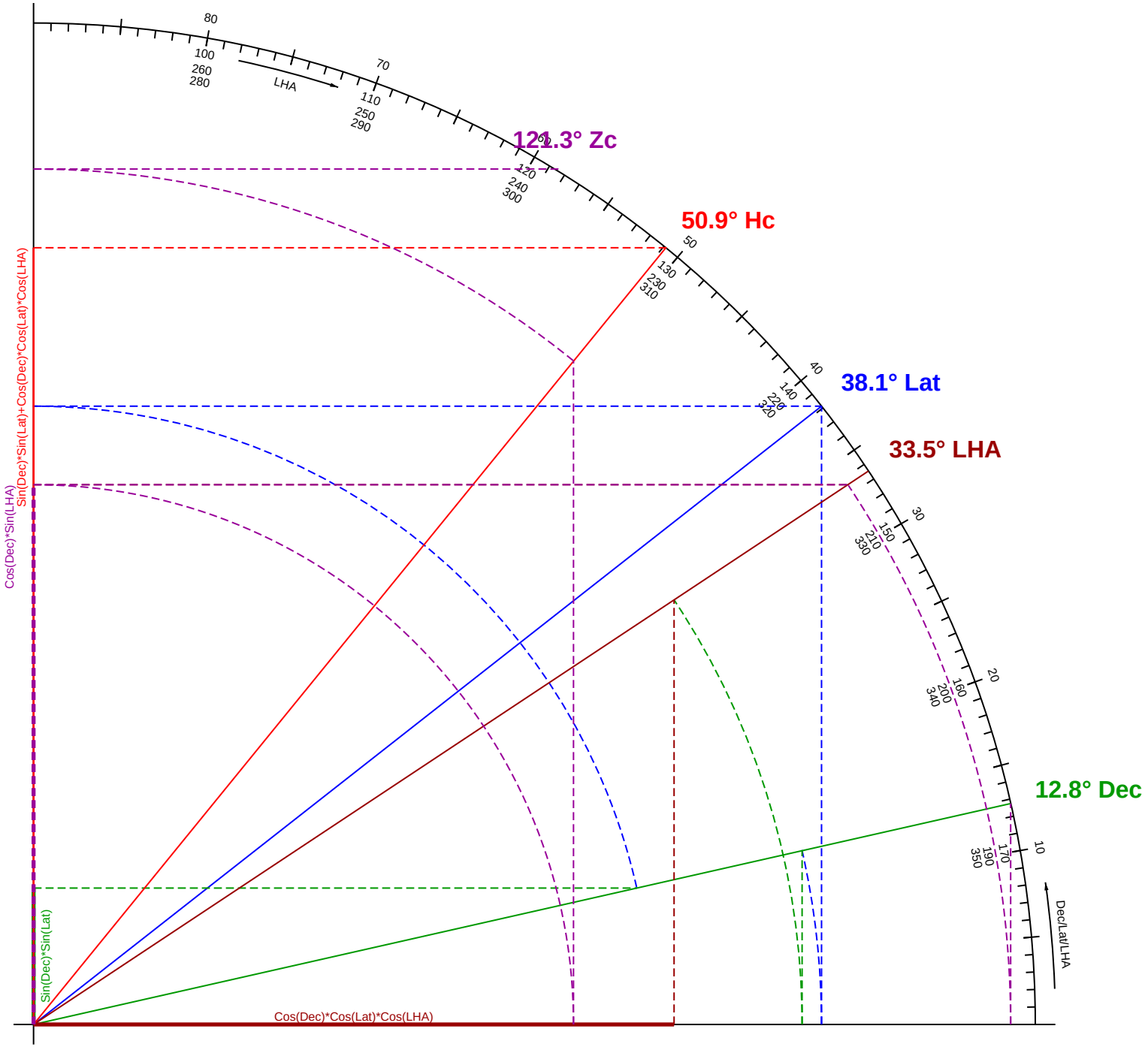
Z = aSin(Cos(Dec)*Sin(LHA) / Cos(Hc))

Worksheet for graphical Sight-Reduction - Example

Observer at 38.1°N Latitude

Star with 12.8°N Declination and 33.5° LHA

Mathematical results for the Sight Reduction: Hc=50.9° Zc=121.3° (58.7°)



Hc = aSin(Sin(Dec)*Sin(Lat) + Cos(Dec)*Cos(Lat)*Cos(LHA))

Sin(Dec)*Sin(Lat)	is positive	} ADD components
Cos(Dec)*Cos(Lat)*Cos(LHA)	is positive	

Z = aSin(Sin(LHA)*Cos(Dec) / Cos(Hc))