TRIANGLE PROGRAM – SSS

\[ \text{XEQ} \ \text{E} \ (\text{XEQ} \ \text{R}) \ \text{ENTER} \]

- Enter Length of First Side \( R \)
- Enter Angle After (DMS) \( R \)
- Enter Next Angle (DMS) \( R \)
- Read Angle Opposite & First Side \( R \)
- Read Angle Opposite & Second Side \( R \)
- Read Angle Opposite & Third Side \( R \)
- Read Triangle Area \( R \)

TRIANGLE PROGRAM – ASA

\[ \text{XEQ} \ \text{R} \ \text{(XEQ} \ \text{S}) \ \text{ENTER} \]

- Enter Angle Before (DMS) \( R \)
- Read Angle Opposite & First Side \( R \)
- Read Angle Opposite & Second Side \( R \)
- Read Angle Opposite & Third Side \( R \)
- Read Triangle Area \( R \)

INVERSE TRAVERSE PROGRAM

\[ \text{XEQ} \ \text{A} \ (\text{XEQ} \ \text{R}) \ \text{ENTER} \]

- Enter X-Coord. of Beginning Point \( R \)
- Enter Y-Coord. of Beginning Point \( R \)
- Enter Azimuth of Beginning Point \( R \)
- Enter Distance to New Point \( R \)
- Read X-Coord. of Intersection \( R \)
- Read Y-Coord. of Intersection \( R \)
- XEQ \( \text{S} \) \( \text{(XEQ} \ \text{R}) \ \text{ENTER} \)

RADIAL TRAVERSE PROGRAM

\[ \text{XEQ} \ \text{V} \ (\text{XEQ} \ \text{R}) \ \text{ENTER} \]

- Enter X-Coord. of Fixed Point \( R \)
- Enter Y-Coord. of Fixed Point \( R \)
- Enter Azimuth to New Point \( R \)
- Enter X-Coord. of New Point \( R \)
- Read Inverse Azimuth (D.MMSSss) \( R \)
- Read Y-Coord. of New Point \( R \)

HORIZONTAL CURVE PROGRAM

\[ \text{XEQ} \ \text{A} \ (\text{XEQ} \ \text{R}) \ \text{ENTER} \]

- Enter X-Coord. of Radius Point 1 \( R \)
- Enter Y-Coord. of Radius Point 2 \( R \)
- Enter Delta Angle \( R \)
- Enter Curve Radius \( R \)
- Enter Tangent Length \( R \)
- Enter the Mid-Ordinate \( R \)
- Read Y-Coord. of Intersection 1 \( R \)
- Read Azimuth, Rad. Pt. to Intersection 1 \( R \)
- Prompt “SOLUTION 2” \( R \)
- Read X-Coord. of Intersection 2 \( R \)
- Read Y-Coord. of Intersection 2 \( R \)

Notes:
- All angle input and output is north-based AZIMUTH in the form D.MMSSss.
- Use the label 001) to run a program.