

**Position from intercept and azimuth by calculation ~ See Nautical Almanac page 282 paragraph 11**

|  |       |            |         |      |           |       |       |  |
|--|-------|------------|---------|------|-----------|-------|-------|--|
| Number of Bodies                               | 3     | T (Course) | 325     | deg. | V (Speed) | 20    | knots | Date   |
| Crossing Angle of LOPs From Body 1 & Body 2 is | 64.0  | deg.       | DR Lat  | 32   | deg.      | 0.00  | min.  | N<br>3-Jul-16                                  |
| Crossing Angle of LOPs From Body 1 & Body 3 is | 88.2  | deg.       | DR Lo   | 15   | deg.      | 0.00  | min.  | W<br>Time of Fix<br>21:00:00                   |
| Crossing Angle of LOPs From Body 2 & Body 3 is | 27.7  | deg.       | Fix Lat | 31   | deg.      | 37.19 | min.  | N<br>Distance between DR & Fix<br>22.81 n. mi. |
| Azimuth Spread                                 | 207.6 | deg.       | Fix Lo  | 15   | deg.      | 0.36  | min.  | W<br>Direction from DR to Fix<br>180.8 deg.    |

**Warning ... Azimuth Spread < 210 deg.**

**Enter data into yellow cells**

| Body 1 Data         |                             | Body 2 Data         |                              | Body 3 Data         |                            |
|---------------------|-----------------------------|---------------------|------------------------------|---------------------|----------------------------|
| REGULUS             | deg. min.                   | ANTARES             | deg. min.                    | Kochab              | deg. min.                  |
| Hc                  | 27 27.96                    | Hc                  | 25 27.68                     | Hc                  | 47 56.26                   |
| Zn                  | 267.1 deg.                  | Zn                  | 151.5 deg.                   | Zn                  | 359.1 deg.                 |
| Time of Observation |                             | Time of Observation |                              | Time of Observation |                            |
| 20:39:23            | Intercept 0.8 n. mi. Toward | 20:45:47            | Intercept 18.5 n. mi. Toward | 21:10:34            | Intercept 24.0 n. mi. Away |
| Ho                  | 27 deg. 28.75 min.          | Ho                  | 25 deg. 46.22 min.           | Ho                  | 47 deg. 32.26 min.         |
| Total GHA           | 79 deg. 50.19 min.          | Total GHA           | 346 deg. 8.26 min.           | Total GHA           | 17 deg. 17.34 min.         |
| Declination         | 11 deg. 53.20 min. N        | Declination         | 26 deg. 27.90 min. S         | Declination         | 74 deg. 5.70 min. N        |