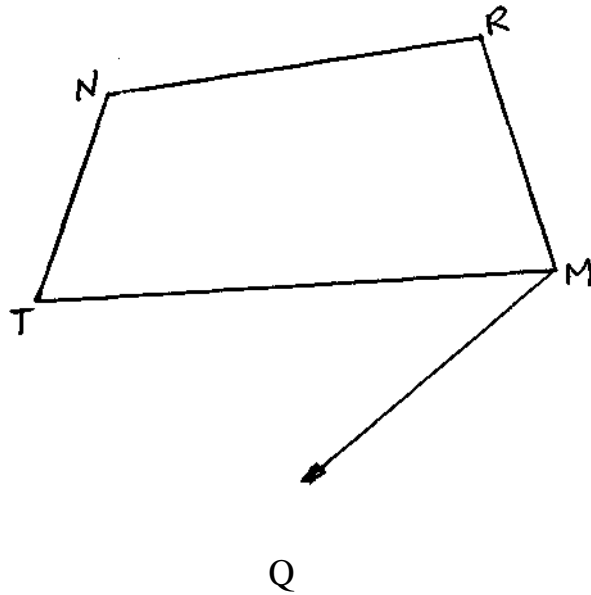


Calcular el error de cierre azimutal del itinerario M-R-N-T-M, a partir de los siguientes datos de campo: $\theta_M^Q = 240,35^s$

Lectura de direcciones horizontales en(g)

M-Q	59,44
M-R	204,87
R-M	40,22
R-N	153,81
N-R	186,07
N-T	290,42
T-N	83,15
T-M	160,32
M-T	189,37
M-Q	148,88



$$\theta_M^R = \theta_M^Q + \alpha_M = 240,35 + 145,43 = 385,78^s$$

$$\alpha_M = 145,43^s$$

$$\theta_R^M = 185,78^s$$

$$\alpha_R = 113,59^s$$

$$\theta_R^N = \theta_R^M + \alpha_R = 299,37^s$$

$$\alpha_N = 104,35^s$$

$$\theta_N^R = 99,37^s$$

$$\theta_N^T = \theta_N^R + \alpha_N = 203,72^s$$

$$\alpha_T = 77,17^s$$

$$\theta_T^N = 3,72^s$$

$$\alpha_{M(cierre)} = 148,88 - 189,37 + 400 = 359,51^s$$

$$\theta_T^M = \theta_T^N + \alpha_T = 80,89^s$$

$$\theta_M^T = 280,89^s$$

$$\theta_M^Q = \theta_M^T + \alpha_{M(cierre)} = 240,4^s$$

Error de cierre: $240,4^s - 240,35^s =$

$$0,05^s = 5^c$$