INTERSECCIÓN DIRECTA SIMPLE

SOLUCIÓN:

Para calcular las coordenadas de V procedemos de la siguiente manera:

DATOS :

$L_C^T = 132{,}1543$	$X_C = 10000{,}00$
$L_C^V = 198{,}4523$	$Y_C = 20000{,}00$
$L_T^C = 15{,}2745$	$X_T = 15500{,}00$
$L_T^V = 395{,}4527$	$Y_T = 25000{,}00$

CÁLCULOS :

$D_C^T = 7433{,}03$

$\theta_C^T = 53{,}0292$	$\Sigma_C = 320{,}8749$	$\theta_C^V = 119{,}3272$
$\theta_T^C = 253{,}0292$	$\Sigma_T = 237{,}7547$	$\theta_T^V = 233{,}2074$
$\hat{C} = 66{,}2980$	$\hat{T} = 19{,}8218$	$\hat{V} = 113{,}8802$

$D / \text{sen}\hat{V} = D_C^V / \text{sen}\hat{T} = D_T^V / \text{sen}\hat{C}$

$D_C^V = 2332{,}35$
$D_T^V = 6571{,}13$

$\Delta X_C^V = 2.225{,}69$	$\Delta X_T^V = -3.274{,}31$
$\Delta Y_C^V = -697{,}25$	$\Delta Y_T^V = -5.697{,}25$
$X_V = 12.225{,}69$	$X_V = 12.225{,}69$
$Y_V = 19.302{,}75$	$Y_V = 19.302{,}75$

Incertidumbre en la determinación del punto V:

$$a = \frac{e_a\, L_{media}}{sen\,\frac{\alpha}{2}} = \frac{\frac{25^{cc}}{636620^{cc}}\;\frac{2.332{,}35 + 6.571{,}13}{2}}{sen\,\frac{200 - 113{,}8802}{2}} = 0{,}28\ m$$