PROJECT	**POSITION COMPUTATION, _____ ORDER TRIANGULATION (For calculating machine computation)** For use of this form, see FM 3-34.331; the proponent agency is TRADOC.
LOCATION	ORGANIZATION ° ′ ″
	DATE *(YYYYMMDD)* ° ′ ″

a	2	To 3				*a*	3	To 2			
$2^d\angle$		&	+			$3^d\angle$		&	—		
a	2	To 1				*a*	3	To 1			
Δ *a*						Δ *a*					
			180	00	00.00				180	00	00.00
a′	1	To 2				*a′*	1	To 3			

° ′ ″ First Angle of Triangle ° ′ ″ ° ′ ″ ° ′ ″

ϕ				2	λ				*ϕ*				3	λ			
				s=	Δ λ								**s=**	Δ λ			
ϕ′				1	λ′				*ϕ′*				1	λ′			

Δ *ϕ*	(**log** s= b=(y/10,000)2)	Δ *ϕ*	(**log** s= b=(y/10,000)2)
sin *a*	x cor. = $-\frac{1}{2}$ fb	**sin** *a*	x cor. = $-\frac{1}{2}$ fb
cos *a*	**x′**	**cos** *a*	**x′**
x=s sin *a*	**H**	**x=s sin** *a*	**H**
y=− s cos *a*	Hx′=(approx. Δ λ″)	**y=− s cos** *a*	Hx′=(approx. Δ λ″)
a=(x′/10,000)2	Arc−sin cor = + $\frac{V\,(Va)}{15}$	**a=(x′/10,000)2**	Arc−sin cor = + $\frac{V\,(Va)}{15}$
y cor. = +fa	**Δ λ″**	y cor. = +fa	**Δ λ″**
y。	**sin *ϕ***	**y**。	**sin *ϕ***
y′	**sin *ϕ′***	**y′**	**sin *ϕ′***
y 1	1+ cos Δ*ϕ*	**y 1**	1+ cos Δ*ϕ*
Va —	$\frac{\sin\phi + \sin\phi'}{1 + \cos\Delta\phi}$ **or sin** ϕ_m	**Va** —	$\frac{\sin\phi + \sin\phi'}{1 + \cos\Delta\phi}$ **or sin** ϕ_m
y2	− Δ *a″* (approx.)	**y2**	− Δ *a″* (approx.)
V	+ F (Δ λ″)3	**V**	+ F (Δ λ″)3
K (Va/1,000)2 +	− Δ *a″*	K (Va/1,000)2 +	− Δ *a″*

COMPUTED BY	DATE *(YYYYMMDD)*	CHECKED BY	DATE *(YYYYMMDD)*	NOTE: For *s.* under 8,000 meters omit terms under the heavy black line not in heavy bold type or underlined.

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