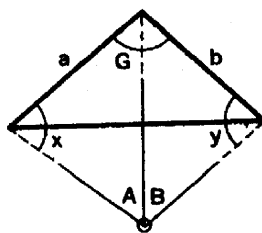
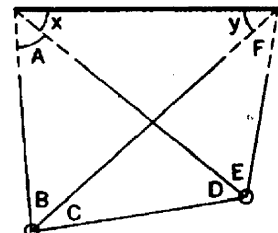
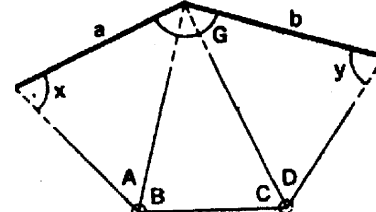


PROJECT		SPECIAL ANGLE COMPUTATION For use of this form, see FM 3-34.331; the proponent agency is TRADOC.	
LOCATION		DATE (YYYYMMDD)	
ORGANIZATION		CASE USED 1. ☐ 2. ☐ 3. ☐	

 Case 1 $\frac{\sin x}{\sin y} = \frac{b \sin A}{a \sin B} = \tan \alpha$ THREE-POINT PROBLEM	 Case 2 $\frac{\sin x}{\sin y} = \frac{\sin A \sin C \sin E}{\sin B \sin D \sin F} = \tan \alpha$ INACCESSIBLE BASE PROBLEM	 Case 3 $\frac{\sin x}{\sin y} = \frac{b \sin A \sin C}{a \sin B \sin D} = \tan \alpha$ SPECIAL ANGLE PROBLEM
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$\frac{1}{2}(x+y) =$	{ Case 1: $180^\circ - \frac{1}{2}(A+B+G) =$ Case 2: $\frac{1}{2}(C+D) =$ Case 3: $270^\circ - \frac{1}{2}(A+B+C+D+G) =$
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Leave blanks below here for values not involved in the CASE used.

log b		log a	
log sin A		log sin B	
log sin C		log sin D	
log sin E		log sin F	
* ① Sum		* ② Sum	
— ② —		— ① —	
log tan α		log tan α	
α	° ' "	α	° ' "
α-45°		α-45°	
log tan $\frac{1}{2}(x+y)$		log tan $\frac{1}{2}(x+y)$	
log tan (α-45°)		log tan (α-45°)	
Sum=log tan $\frac{1}{2}(x-y)$		Sum=log tan $\frac{1}{2}(y-x)$	
$\frac{1}{2}(x-y)$	° ' "	$\frac{1}{2}(y-x)$	° ' "
$\frac{1}{2}(x+y)$		$\frac{1}{2}(y+x)$	
x		y	
y		x	

α is an auxilliary angle needed only for the computation: it is always between 45° and 90°
 * Where ① is greater than ② use only the left side of the form below here, and vice versa.

COMPUTED BY	DATE (YYYYMMDD)	CHECKED BY	DATE (YYYYMMDD)
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