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Calvin Koder Point estimation divens other knams points 2016
              and distances from knowns to unknown
                      Part O: Duplateration
       Given: point B, point O, distance |AB| distance |AC1
       Find: point A
 O Translate DABC to DA'B'C' with shift (-B.x, -B.y)
    O A' = (A.x - B.x, A.y - B.y)
    1 B'= (0,0)
    2 C' = (C.x - B.x, C.y - B.y)
3 4 ABC = 4 A'B'C'
       Rotate AA'B'C' to AA"B"C" about axis B' s.t.
       . C". Y = 0
    0 B" = B0
    a ("=(c"x,0)
    2 1/C"B"/= 1/CBI
    3 || ("B" || = \(\(\text{C".} \nu - B".\nu)^2 + (C".\(\text{x} - B".\nu)^2\)
4 || C" B" || = \(\text{C".} \nu^2\) (Substitute for
                              (Substitute from 1.0,0.2, 161) 01,
       11 C"3" /= 1 C". x
       (C"x) = 11 CB/
    7 C": x = 11 CB11 OR C.x = - 11 CB11,
8 C": x = 11 CB11 disregard because positive orientation
                               is simpler
    9 L"= (11 EBIL, 0)
  Calculate 4 A'B'C"
2
    0 4 A'B'C" = 4 A'B'C' + 4 C'B'C"
       4 A'B'C"= & ABC + & C'B'C" (sub 0.3)
    2 11 AGIT= 11 ABI1 + 11 BC112 - 211 ABI1 11 BC11 (05 ( 3 ABC)
    3 4-ABC= tacos + 11AB112+11BC112-11AC117
                         2 /AB / BLI
    4 AB'C" 1 = 11B'C'11 cos (4 C'B'C")
5 4 C'D'C"= tacos [11B'C"1]
                             118'C'11
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9		Calculate & A'B'C" (cont.)
	6	4 A'B'C"=+ 4 ABC + 4 C'B'C" Or & ABC=- 4 ABC - 4 CB'C"
	7	4 A'B'C"= 14 ABC + 14 C'B'C" OF & ABC=- 4ABC - 4CB'C")
•	}	
<u> </u>		Calculate A'. A' = (1A'B' cos(4A'B'c"), 1A'B'sin (4A'B'c"))
	1	1A'B' = 1AB)
		A'= (IAB cos (4 A'B'C"), AB sin (4 A'B'C"))
		oror A'=(
Manager and the sense for the sense is a sense of the sen		A'=(IAB cos(-4A'B'c"), IAB sin(-4A'B'c"))
	3	A'= (1ABlcos (3A'B'C"), 1ABlsin (4A'B'C"))
		01 (1/17)
		A'= (IAB (cos (& A'B'C"), - IAB) sin (& A'B'C")
7	+	Calculate A
		A=A'+B
	1	A=(IAB)(OS(AA'B'C")+B.x, IAB sin(AA'8'C") +B.y)
		or (land de la land)
		A = (IAB cos(\$A'B'C") + B.x, - IAB sin (\$A'B'C") + B.y)
*		Shorthand notation: A=A+, A=A-
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