Algorithm: ATVUDE in the HP 32 SII Calculator A01 LBL A A02 DEG V06 VIEW(i) ============ A03 CLVARS V07 PSE | i | Register | A04 RADIX. V08 ISG i V09 GTO V A05 FIX 5 A06 1 V10 FS? 1 A← ax A07 INPUT N V11 RTN 1.002 A08 1 E-3 V12 END OK B← ay A09 x V13 PSE A10 +V14 CF 10 C← bx A11 STO i V15 CLx 3.004 A12 STO Z V16 ENTER D← by A13 1.002 V17 RTN A14 STO V U01 LBL U E← cx A15 CLx U02 RCL i 5.006 U03 STO Z T01 LBL T F← cy T02 VIEW i U04 R↓ T03 PSE U05 RTN G← dx 7.008 T04 FS? 0 D01 LBL D T05 XEQ U D02 INPUT T H← dy T06 XEQ D D03 INPUT R _____ T07 0 D04 RCL T I← ex T08 STO R D05 RCL R 9.010 T09 STO T D06 $\theta, r \rightarrow y, x$ J← ev T10 R↓ D07 STO+ X T11 SF 0 D08 x <> yK← fx T12 ISG i D09 STO+ Y 11.012 D10 RCL V T13 GTO T T14 CF 0 D11 STO i T15 RCL Y D12 R↓ 1.01102 X← A+C+E+G+I+K E01 LBL E T16 RCL X X = ax+bx+cx+dx+ex+fxT17 y, x→θ,r E02 x<>y T18 STO R E03 STO(i) 2.01202 Y← B+D+F+H+J+L T19 x<>y E04 ISG i Y = ay + by + cy + dy + ey + fyT20 STO T E05 GTO E T21 SF 1 E06 2.002 T22 ST 10 E07 STO+ v To run the program: XEQ A T23 1 E08 RCL Z and follow the instructions in T24 0.001 E09 STO i the display. T25 RCLx N E10 R↓ T26 2 This program will can add 2 or E11 RTN T27 x T28 + 3 or 4 or 5 or 6 vectors by Decomposition of the Compo-T29 STO i nents. T30 XEQ V T31 24.025 Developer: T32 STO i Cristovom A.Girodo T33 XEQ V T34 18.02002 T35 STO i T36 CF 1 V01 LBL V V02 TO CHECK V03 PSE

V04 VIEW i V05 PSE