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PROGRAM EQUATION
REAL A,B,C,D,E,X1,X2
PARAMETER(EPS=1E-6)
10  WRITE(*,*) 'ENTER A,B,C'
    READ(*,*,END=20)A,B,C
    WRITE(*,601)A,B,C
601  FORMAT('A=',F10.5,' ',B=',F10.5',' ',C=',F10.5)
      D=B**2-4*A*C
      IF(ABS(D).LT.EPS) D=0
      E=-B/(2*A)
      IF(D.GT. 0)THEN
          X1=E+SQRT(D)/(2*A)
          X2=E-SQRT(D)/(2*A)
          WRITE(*,602)X1
602  FORMAT('ans(X1)=',F10.5)
          WRITE(*,603)X2
603  FORMAT('ans(X2)=',F10.5)
      ELSE IF (D.EQ. 0) THEN
          WRITE(*,604)E
604  FORMAT('ans(X)=',F10.5)
      ELSE
          F=SQRT(ABS(D))/(2*A)
          WRITE(*,605)E,F
605  FORMAT('ans(X1)=',F10.5,' + ',F10.5,' i')
          WRITE(*,606)E,F
606  FORMAT('ans(X2)=',F10.5,' - ',F10.5,' i')
      END IF
      GOTO 10
20  STOP
END

ENTER A,B,C
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A= 1.00000 ,B= -5.00000 ,C= 6.00000

ans(X1)= 3.00000

ans(X2)= 2.00000

ENTER A,B,C

A= 1.00000 ,B= -2.40000 ,C= 1.44000

ans(X)= 1.20000

ENTER A,B,C

A= 1.00000 ,B= 2.00000 ,C= 3.00000

ans(X1)= -1.00000 + 1.41421 i

ans(X2)= -1.00000 - 1.41421 i

ENTER A,B,C