-1.9486 -1.9486 As (is a real symmetric mother, hence it is diagonali-- zable and have both real vectors and are orthogonal. Let W= W2 ahere w, & wz are isied. Univariate standard-normal RVs. det x = [x] be point ocquired bivariate 9 au ssian

. We can say that X = AW + M aher we have have to find atorx distribution Cie diagonalizable .: R-1 CR = 81 = K whore or ar eigen values of C. where V, & Vz or orthonormal eigen vetoss of C C=RKR-

DATE

late can write A= RS WA where S is a diagonal. matrix & R & a osthogonal motsix. which sepsesents isst scaling of isotropic birasiate & then sotation/ reflection. Ds V, & V2 are orthorormal Ris orthogonal matrix, ·· RB = R C = A AT

RS (RS)T RKR-1 = RSSTRT Ac Six diagonal matrix, S.S.S.T.

DATE - RKRT = RSTRT A= RS AW+H will provide a point in bi rar iate gaussian







