

PRECALCULUS QUIZ #2

NO BOOKS, NOTES OR CALCULATORS

#1 DERIVE THE QUADRATIC FORMULA.

#2 CONVERT $25^{\circ}12'45''$ TO DECIMAL NOTATION

#3 CONVERT 36.4° TO $D^{\circ}M'S''$ NOTATION

#4 IF CITY A IS DUE NORTH OF CITY B AND CITY A HAS LATITUDE $\theta_A = 78^{\circ}45'$ AND CITY B HAS LATITUDE $\theta_B = 48^{\circ}15'$

FIND THE DISTANCE BETWEEN THE TWO CITIES ALONG THE SURFACE OF THE EARTH.
(RADIUS OF EARTH $R_E = 2960$ miles)
