Name:		

MATH 320: QUIZ 7

- (1) (4 points) Compute a least squares regression line fitting the three points (0,0), (1,0), and (1,1).
 - (a) First, frame the regression as a linear algebra problem: $X^T X \beta = X^T Y$.
 - (b) Then, solve for β using your preferred technique.

(2) (3 points) Compute the sum-of-squares residual error, and the correlation coefficient for this linear regression.

(3) (3 points) Find the Lagrange form of the interpolating polynomial for the points (0,0),(1,1),(2,4).