Problem 1
a) Faccourd
$$(A, B) = \frac{4}{8} = 0.5$$

Jaccourd
$$(\beta, c) = \frac{4}{8} = 0.5$$

$$A = [4, 5, 0, 5, 1, 0, 3, 2]$$

 $B = [0, 3, 4, 3, 1, 2, 1, 0]$

$$(=[2,0,1,3,0,4,5,3]$$

$$(05)(A_3B) = 0 + 15 + 0 + 15 + 1 + 0 + 3 + 0 = 34$$

$$= 0 - 601$$

$$= 0 - 601$$

$$A = [1, 1, 0, 1, 0, 0, 0, 0]$$
 $B = [0, 1, 1, 1, 0, 0, 0, 0]$

$$(05(A,B) = 1 + 1 = 2 = 0.577$$
 $\sqrt{4}\sqrt{3}$
 $2\sqrt{3}$

$$(00)(B_{3}()) = 1 = 1 = 6.289$$

$$(00(A)) = \frac{2}{4} = \frac{2}{4} = 0.5$$

$$A = \begin{bmatrix} 0.67, 1.67, 0, 1.67, -2-34, 0, 0.34, -1-34 \end{bmatrix}$$

$$B = \begin{bmatrix} 0, 0.67, 1-67, 0.67, -1-34, -0-34, -1.34, 0 \end{bmatrix}$$

$$C = \begin{bmatrix} -1, 0, 7-2, 0, 0, 1, 2, 0 \end{bmatrix}$$

$$cos(A,B) = (-67x0.67) + (1.67x0.67) + (-2.34x1.34) + (-0.34x-1.34)$$

$$- (3.41 \times 17.39)$$

$$= 5.829 = 0.5858$$

$$(25)(B_3i) = (1.67x-2)+(0.67x0)+(-0.34)+(-1.34x2) = -6.36$$

$$\sqrt{7.39} \sqrt{10}$$

$$--0.74$$

$$(0)(A_{5}($$

$$= -0.12$$