

# MECENG 276

## QUIZ 1

### Question 1

- A) 0.5
- B) 0.6

### Question 2

$$A = 0.95$$

$$B = -0.7$$

$$C = 0.3$$

$$D = 0.85$$

### Question 3

- A)  $\frac{3}{8}$
- B)  $\frac{3}{16}$
- C)  $\frac{9}{16}$
- D)  $\frac{7}{16}$
- E)  $\frac{7}{16}$
- F)  $\frac{2}{3}$

### Question 4

They are not independent.

### Question 5

$$E[Z] = -14 \quad \text{Var}[Z] = 30$$