

CS-6190: Homework 0

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1 Warm Up

1.

$$p(A \cup B) \leq p(A) + p(B)$$

explain

$$p(A \cap B) \leq p(A)$$

explain

$$p(A \cup B) \leq p(A)$$

explain

2.

$$p\left(\bigcup_{i=1}^n A_i\right) \leq \sum_{i=1}^n p(A_i)$$

3. Start

	$Y = 0$	$Y = 1$
$X = 0$	3/10	1/10
$X = 1$	2/10	4/10

- (a)
 - i.
 - ii.
 - iii.
 - iv.
 - v.

(b)

(c)

4.

5.