

Report Homework 4c

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1. Yes.

$VC(C) \leq Mopt(C)$ holds for all the optimization methods and $MA(C) \geq Mopt(C)$ since it might be the optimal methods. Thus it holds.

2. (e)

3. a, c, d are valid. The Xs can be distributed according to the dividing without overlap. However, b there are overlap however you divide the data, there are overlaps and you could not avoid.

4.

The maximum is 5.

Thus it can be

```
X - - - -  
- X - - -  
- - X - -  
- - - X -  
- - - - X
```

5. Yes. Wei Chen taught me with the exercise.

No.