**DSC 465: Assignment #1**

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**Due 27-Febrauary-2020**

Q1:

1. If **XTX** is not invertible then **X** isn’t linearly independent. If **X** is not linearly independent there are infinitely many least square estimate solutions.
2. = =>

Determinate:



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| --- | --- |
| If : | If : |
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| --- | --- | --- |
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They span the same space therefore they are equivalent

Q2:

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