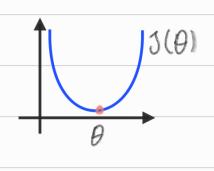
## Normal Equation 33 48764 - Method to solve & analytically

$$J(\theta) = a\theta^2 + b\theta + C \quad (\theta \in \mathbb{R})$$
 可是認可可能的,  $\theta$  运



$$\theta = (X^T X)^{-1} X^T y$$

## Gradient Descent Normal Equation

- Need to choose a - No need to choose of
- Needs many iter. - Don't need to iterate
- Need to compute (XTX) - Works well even when n is large -Slow it'n is very large

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| Normal Equation Noninvertibility                            |
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| 日=(XTX) XTy oum XTX かめるいの 以中型?                              |
| A. 网络型) 留主 智光 0片三型吧, 2型时代                                   |
| pinu () <psendo-inu> Heard 71/2 (in octave)</psendo-inu>    |
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| 450 O Redundant features                                    |
| @ Too many features (m <n) 2="" elsy="" td="" the<=""></n)> |
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