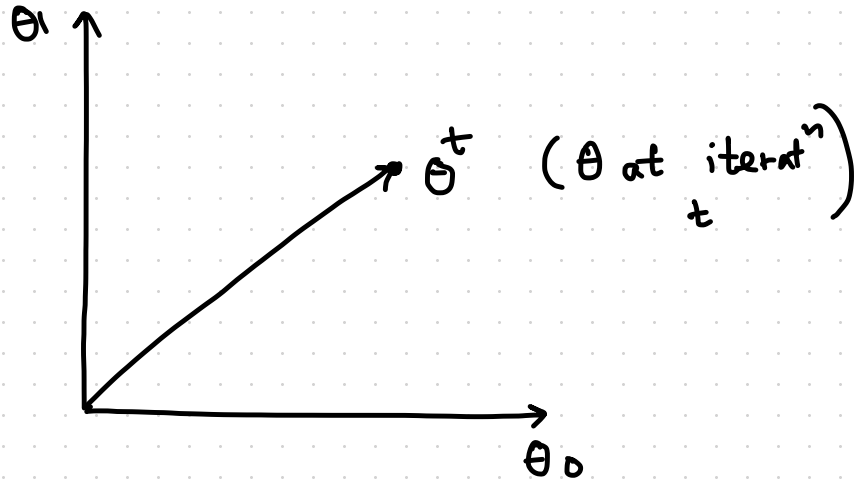
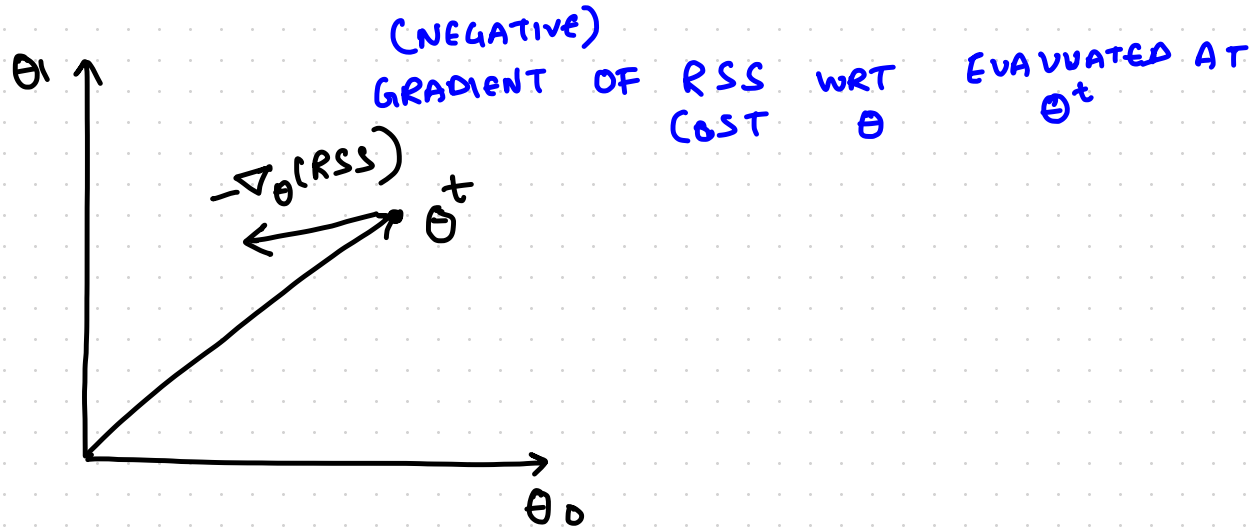


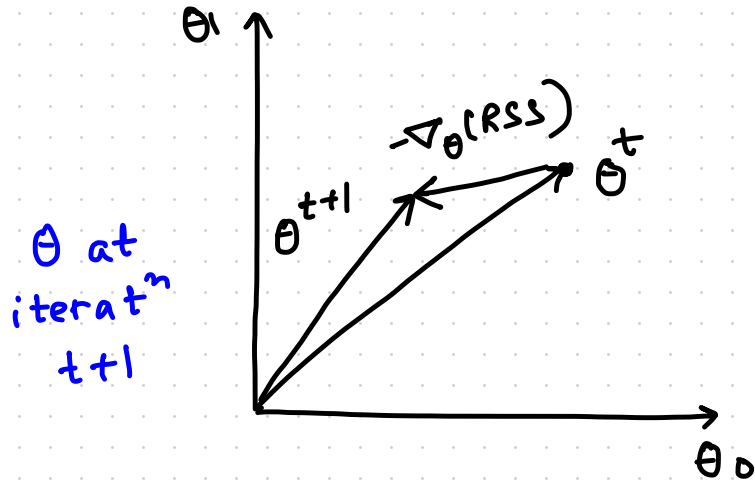
GD UPDATE FOR
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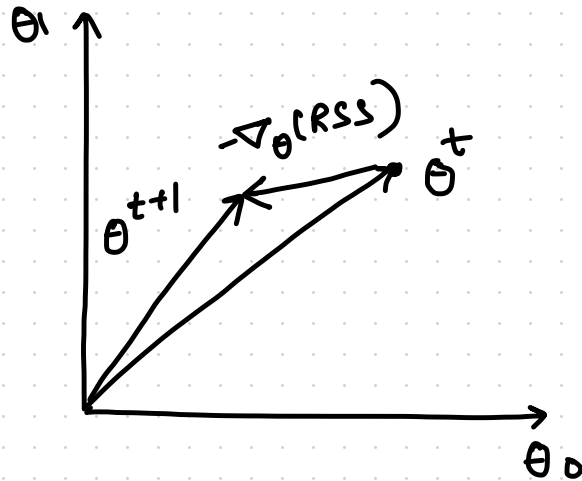
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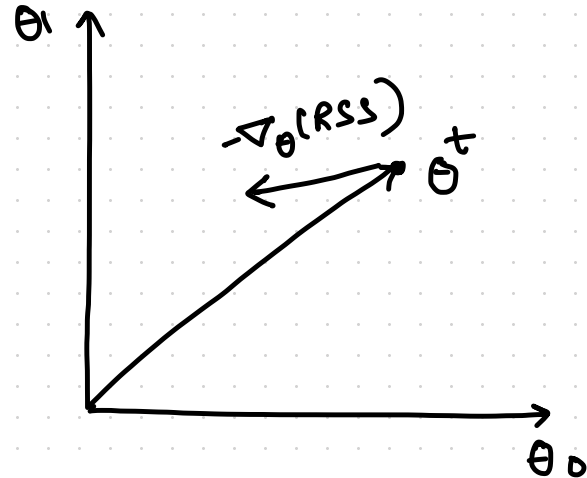
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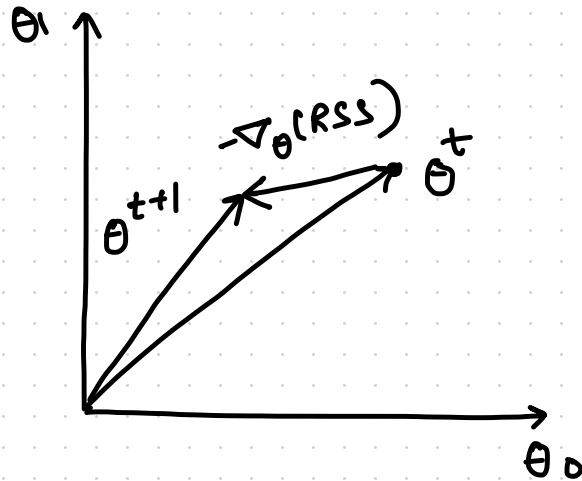
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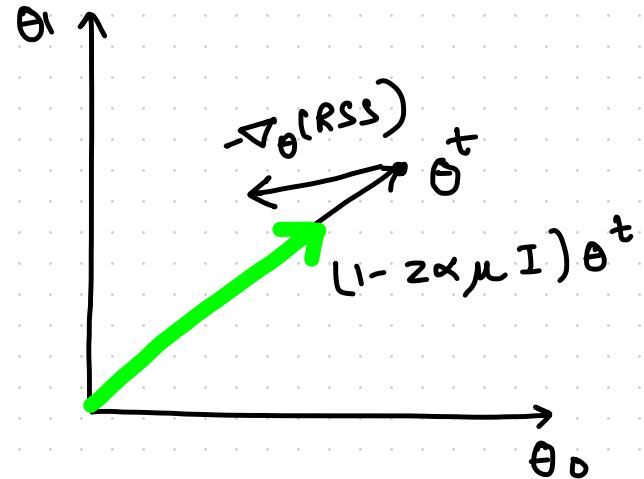
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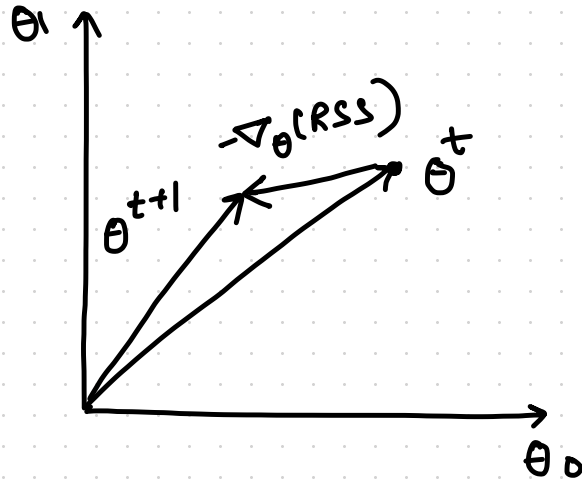
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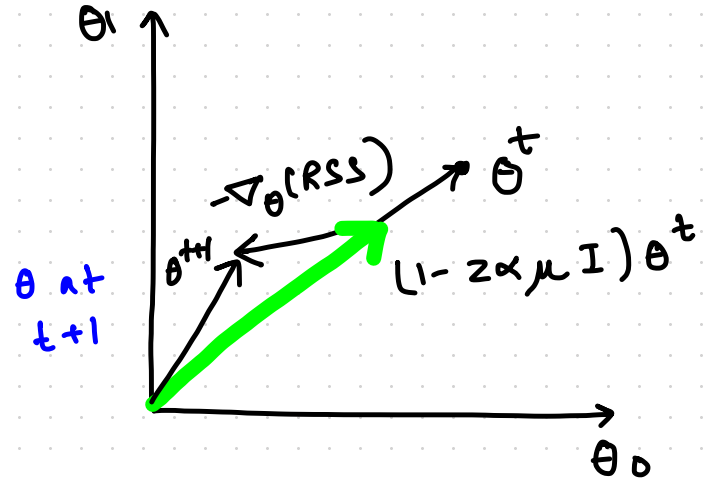
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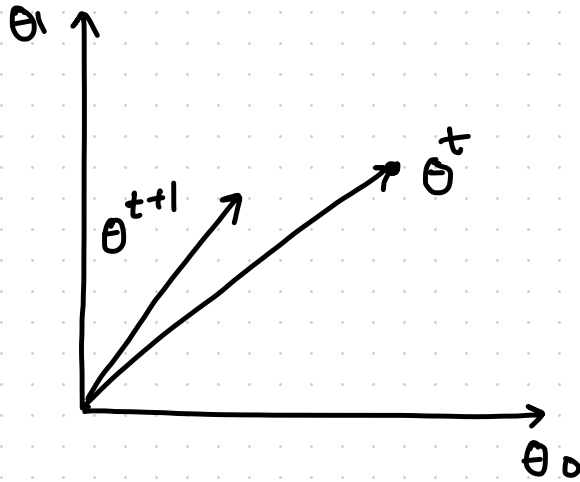
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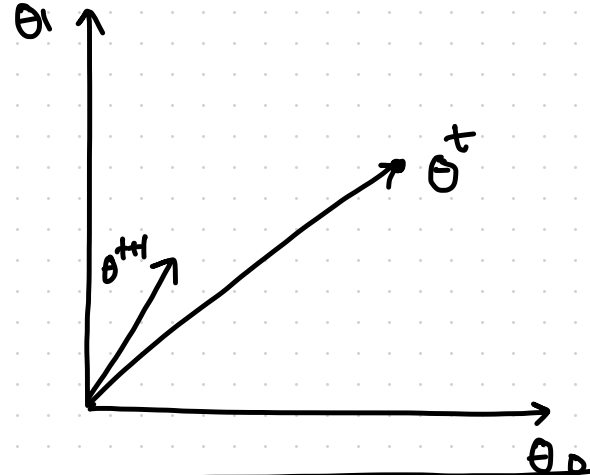
GD UPDATE FOR
RIDGE REGRESSION



GD UPDATE FOR
UNREG. LINEAR REG.



GD UPDATE FOR
RIDGE REGRESSION



Clearly, $\|\theta_{\text{RIDGE}}^{t+1}\|_2 \leq \|\theta_{\text{UNREG}}^{t+1}\|_2$