/.
$$u = ang min g^T D\theta + \frac{1}{2} ||D\theta||^2$$

$$(a) \nabla_{\theta} u = Q + \frac{1}{2} D\theta = 0 \Rightarrow D\theta = -\frac{QQ}{2}$$

 $\theta_{tel} = \theta_t - \frac{d}{2} \nabla \{\theta \Rightarrow \text{standard GD with fixed step size } d/2.$

(b) · argmin
$$g = 0$$
 + $|| \Delta \theta ||_{\infty} = || \Delta$

 $30 = -\eta - s / s / s (g).$