agains I 1 x-ASh + > 118/11

Stradient Descend + Proximal operation Generalisation of Projection Prox of 11.111 f(s)= 1/X-AS/12 = < X-AS, X-AS > = < X, X > - < X, As > - < AS, X > = < X, X > - < X, As > - < AS, X > + < AS, AS > = LX, x > - 4x, s> - < 8, A x>

L: Lischitz constant of Tef

L: $|ATA|_F \stackrel{?}{=} |AT|_2$ T spectral norm

> Sub-problem 2.

num $\stackrel{\checkmark}{=} |X - AS||_F^2 + g(A)$.

A Gradiant-Dscend + Projection $|X - AS||_F^2 = -(X - AS)|S|^T$

$$A^{(i+1)} = Proj \left(A^{(i)} - \frac{VAf(A^{(i)})}{L}\right)$$