$$y = x^{2}x$$

$$x \in \mathbb{R}^{n} \rightarrow c = (x_{1}, \dots x_{n})^{2}$$

$$x^{2} = (x_{1}, \dots x_{n})^{2} \times x^{2}$$

$$x^{2} = (x_{1}, \dots x_{n})^{2} \times x^{2}$$

$$y = (x_{1}, \dots x_{n})^$$

$$y = 2^{T}AC$$

$$A \in \mathbb{R}^{4n}$$

$$(x_1, x_n) = (x_1, x_1 + x_n, x_n) + x_n + x_n$$