$$k(x_{i}, x_{j}) = (\langle x_{i}, x_{j} \rangle + 1)^{b}$$

$$b = 2$$

$$\Rightarrow k(x_{i}, x_{j}) = (\langle x_{i}, x_{j} \rangle + 1)^{2}$$

$$= \langle x_{i}, x_{j} \rangle^{2} + 1 + 2 \langle x_{i}, x_{j} \rangle$$

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