HW

Intersection Form

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Problems

① Find the intersection form of

ⓐ S^4

ⓑ $\mathbb{CP}^2$

ⓒ $S^2 \times S^2$

ⓓ $k\,\mathbb{CP}^2 \,\#\, m\,\overline{\mathbb{CP}^2}$

② Show that there is NOT a closed, smooth, orientable man. X with $Q_X = \overline{E_8}$.

③ Find the intersection form of the following diagram.