



Let $Y = -1$ be O and $Y = 1$ be X

No - the classes are not linearly separable, so a linear SVC cannot classify the data

(x_1, x_2)
 $(-1, 1) \rightarrow -1$
 $(-1, -1) \rightarrow 1$
 $(1, -1) \rightarrow 1$
 $(1, 1) \rightarrow -1$

Yes - a linear SVC can now classify the data because it is linearly separable

