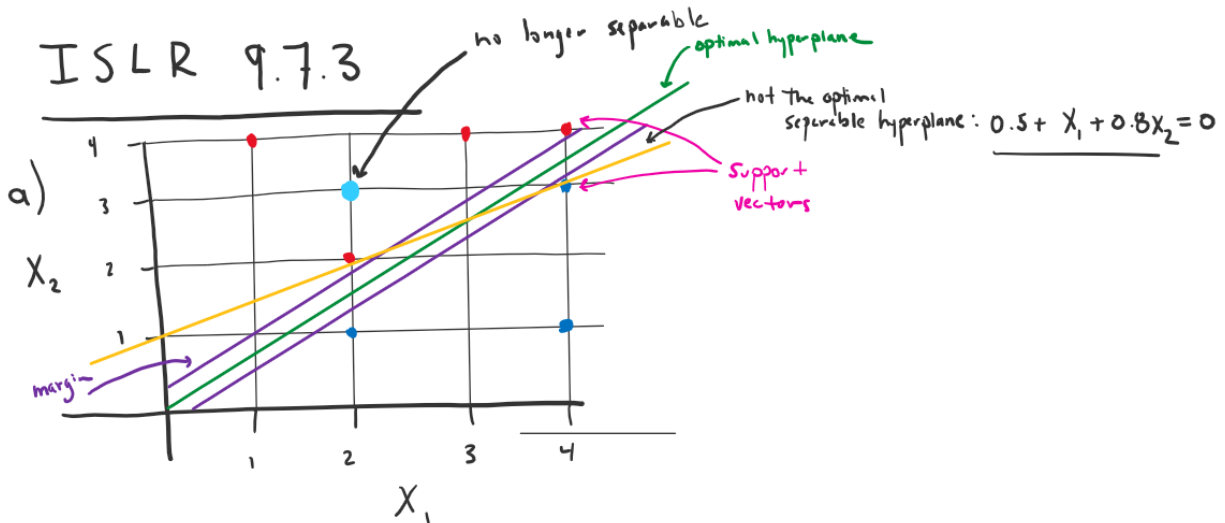


ISLR 9.7.3



b) $\beta_0 + \beta_1 X_1 + \beta_2 X_2 = 0$

$-0.5 + X_1 + X_2 = 0$

c) Classify to red if $-0.5 + X_1 + X_2 > 0$, and
classify to blue otherwise

f) Because $(4,1)$ is not a support vector, and is
not determining the location of the hyperplane,
altering its location will not affect the hyperplane.