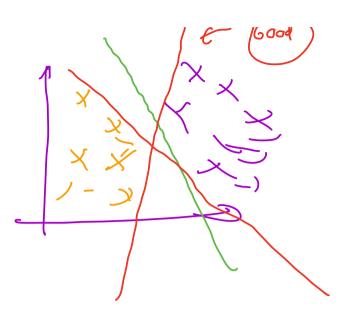
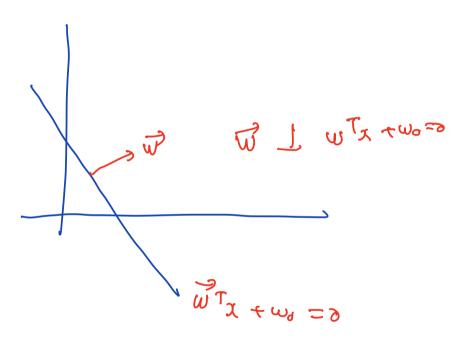
ML =



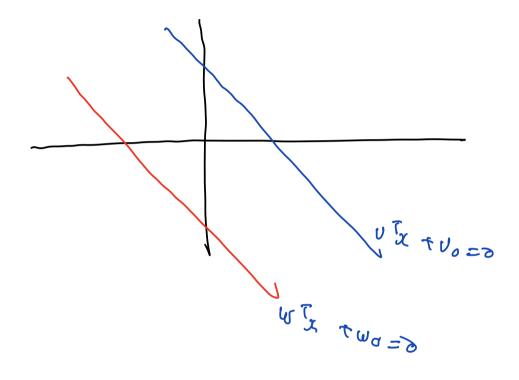
7



⇒ Distance of a b+ from a h-plane

•

Distance blw parallel lines



O => Line is barallel is w = u ?
True False Vi =

$$3x + 2y + 7 = 0$$

$$-) 12x + 8y + 7 = 0$$

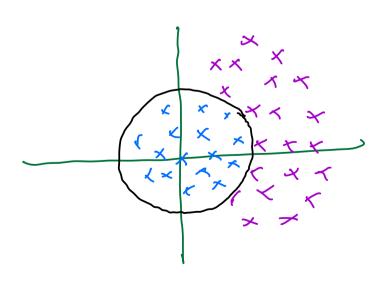
$$3x + 2u + 2 - 0$$

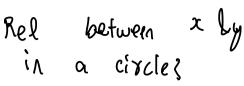
|d, k |dr)

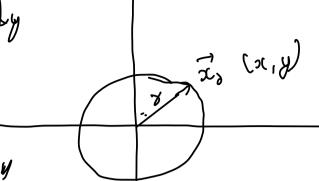
dr Ida-di

ldel - ldi)

Circle





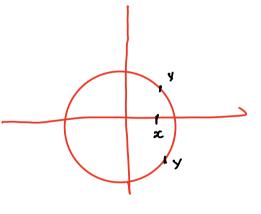


Distance from oxigy

$$\chi^2 + y^2 = y^2$$

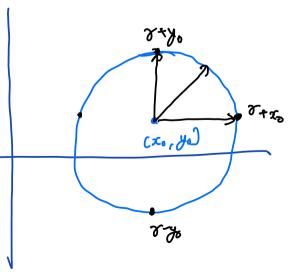
$$y^{2} = y^{2} - x^{2}$$

$$y = \pm \sqrt{y^{2} - x^{2}}$$



O=) What if circle is not in oxigin?

$$(x-x_0)^2+(y-y_0)^2=y^2$$

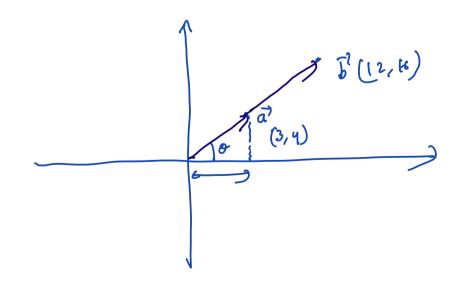


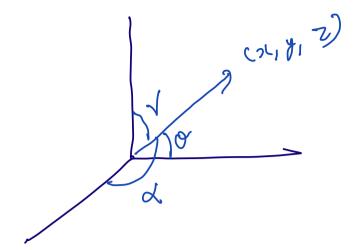
$$(x - x_i^\circ) + (x - x_i^\circ)^2 + - - - - (x_n - x_i^\circ)^2$$

OF) Is
$$(9, 9)$$
 in the circle $\chi^2 + y^2 = 25$
 $y = 6$

$$y^2 + y^2 \Rightarrow 32$$

Unit Vectors



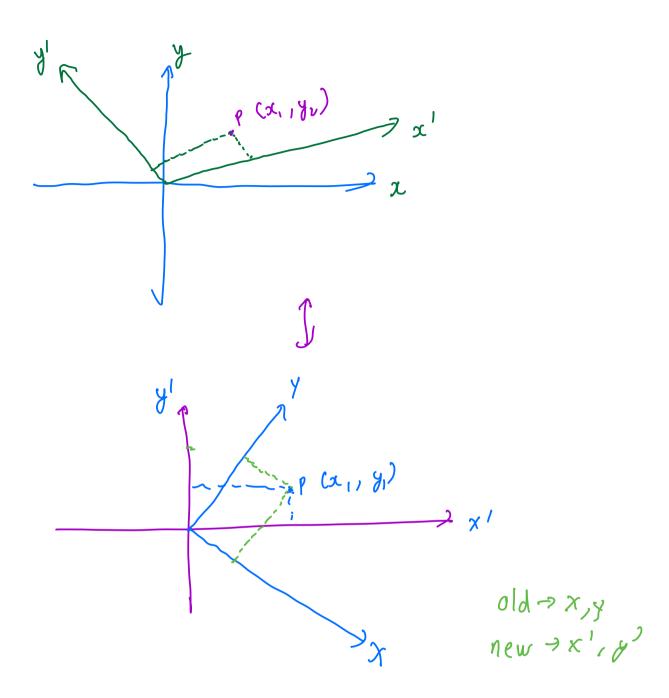


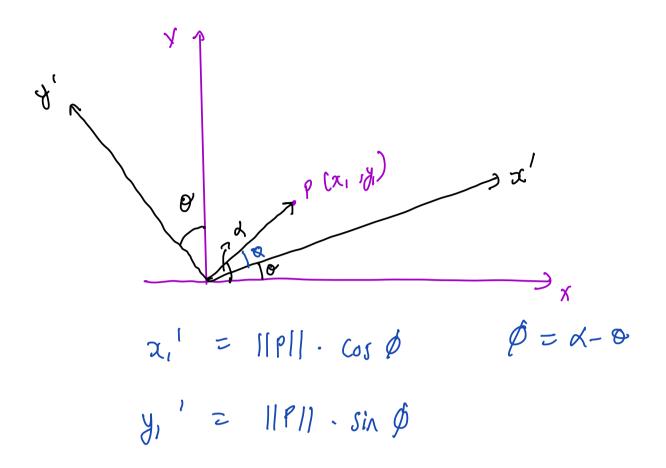
Coro =
$$\frac{base}{Aybo}$$
 = $\frac{3}{\sqrt{3^2 \cdot 7^2}}$ = $\frac{3}{5}$

$$\frac{12}{\sqrt{12^{2}+16^{2}}} = \frac{12}{26} = \frac{3}{5}$$

Projection

1

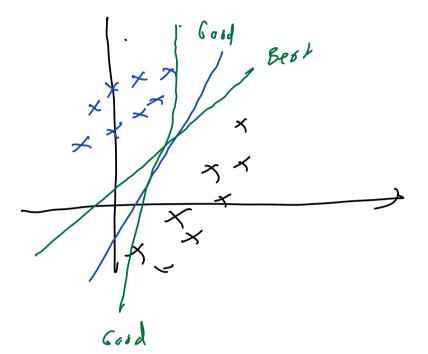




General form
$$x_i' = x \cos 0 + y \sin 0$$

$$y_i' = -x \sin 0 + y \cos 0$$

Bolak: 8:40



age Income Credit rosse Loan

W12, +W2 2 +W0=0 可以为十层。 Reoceptron Learning Algo Initialize wo , is randomly w new = Wold + xi > w Tx



