c) a: $x+y-2=0$

b: $2x+2y-4=0$

$x+y-2=0 \quad / \cdot(-2)$

$2x+2y-4=0$

$-2x-2y+4=0$

$2x+2y-4=0$

$0=0 \Rightarrow$ Totožná

e) a: $x=2-3t$

$y=1-t$

b: $2x-6y+5=0$

$2(2-3t)-6(1-t)+5=0$

$4-6t-6+6t+5=0$

$3 \neq 0 \Rightarrow$ Rovnoběžné

i) a: $x=1-2t$

$y=3+t$

b: $x=3-2s$

$y=s$

$1-2t=3-2s$

$3+t=s \quad / \cdot 2$

$1-2t=3-2s$

$6+2t=2s$

$7 \neq 3 \Rightarrow$ Rovnoběžné

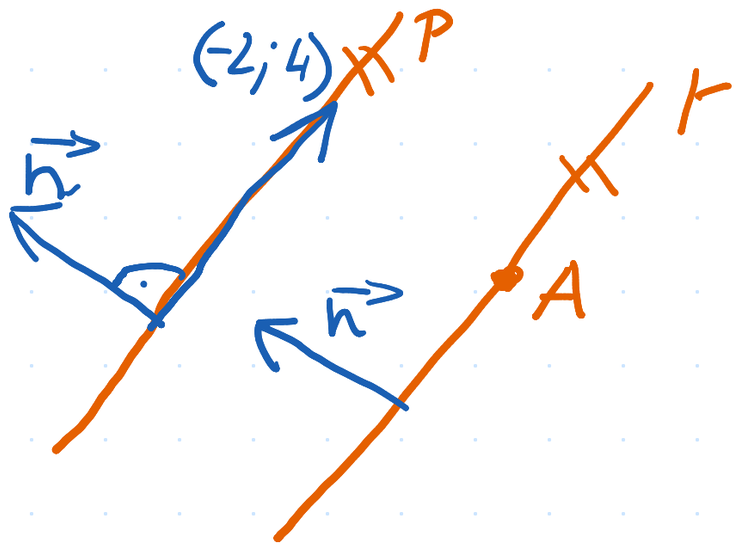
$p: \begin{cases} x = 1 - 2t \\ y = 3 + 4t \end{cases}$

$A = [0; 4]$

a) OR $r \parallel p$; $A \in r$

b) PR $s \perp p$; $A \in s$

a)



$\vec{n} = (-4; -2)$

$ax + by + c = 0$

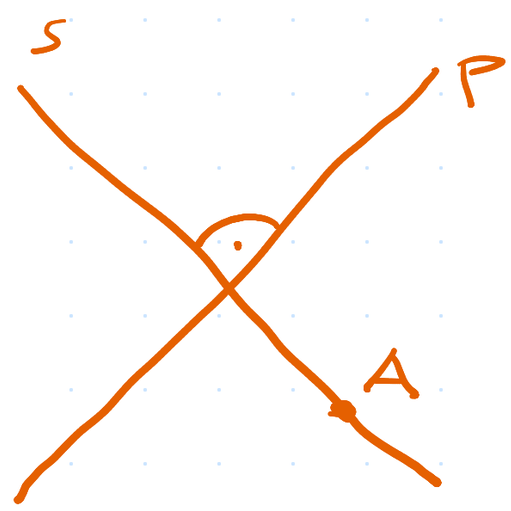
$-4x - 2y + c = 0$

$-4 \cdot 0 - 2 \cdot 4 + c = 0$

$c = 8$

$r: -4x - 2y + 8 = 0$

b)



$\vec{n} = (-4; -2)$

$s: \begin{cases} x = -4t \\ y = 4 - 2t \end{cases}$

$X = a_1 + u_1 \cdot t$

$y = a_2 + u_2 \cdot t$