5.4. IT plan

$$A(3,5,-7) \in \Pi$$
 $ec. lini \Pi prin forestor  $a + 4 + 2 - 1 = 0$ 
 $a,b,c$  premote de forestor  $a = 101 = 161 = 161$ 
 $k = |a| = 1b1 = 161$$ 

(1) 
$$a = b = c = k$$
,  $a, b, c > 0$   

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} - 1 = 0 | k$$

$$x + y + 2 - k = 0 = 3 + 5 - 7 - k = 0 = k = 1 = 1$$

$$= ) ec. \underline{x + y + 2 - 1} = 0$$

(2) 
$$a = 6 = -c = k$$
,  $a, 6 > 0$   $c < 0$   
 $x + y + 2 - 1 = 0 = 3 + 5 + 7 - k = 0 = 3 + 5 = 15 = 0$   
 $= 3 + 5 + 7 - k = 0$ 

(3) 
$$a = -6 = c = k$$
,  $a,c > 0$  6 6 0  
 $x - y + 2 - 1 = 0 =$  3-5-7- $k = 0 =$ )  $k = -9$  20 Nucondue

(4) 
$$a = -6 = -c = k$$
,  $b, c \neq 0$   
 $y - y - 2 - k = 0 = 3 - 5 + 7 + k = 0 = k = 5 = 0$   
=)  $2c. x + y + 2 - 5 = 0$ 

(5) 
$$-\alpha = b = c = k$$
,  $b, c > 0$ ,  $a \neq 0$   
 $-x + g + 2 - k = 0 = 0$ ,  $a \neq 0$ 

(6) 
$$-\alpha = 6 = -c = 6$$
  
 $-x+y-7-k=0 = -3+5+7-k=0 = -3+5+7-k=0 = -3+5+7-k=0$   
=)  $-3+5+7-k=0 = -3+5+7-k=0 = -3$ 

(7) -a = -b = c = k, c > 0 a > b = 0-4 - g + 2 - k = 0 = ) - 3 - 5 - 7 - k = 0 = ) K = -15 Nu contact

(P) -a = -b = -c = k, a,b,c < 0-x-y-2-k = 0 = 3-5+1-k = 0) k = -1 < 0 Me conte.