$$\vec{n}_1 = \langle 3, 2, -1 \rangle \perp \vec{p}_1$$
 $\vec{n}_2 = \langle 0, -1, 1 \rangle \perp \vec{p}_2$ 

So 
$$\vec{n} = \vec{n}, \times \vec{n}_z$$
 is a normal to the solution plane

$$= (2-1)7 - (3-0)7 + (-3-0)R = <1,-3,-3>$$

Solution plane: 
$$1(x+2)-3(y-1)-3(z-5)=0$$
 either answer  $x+2-3y+3-3z+15=0$  is fine  $x-3y-3z=-20$