

62

$s_1 = \begin{cases} x-2 \\ y-0 \\ z+1 \end{cases} \Rightarrow \frac{x-2}{1} = \frac{y-0}{-1} = \frac{z+1}{1} \Rightarrow$
 $P(2+2\alpha, 2+\alpha, -1+\alpha)$
 $s_2 = \begin{cases} x+y+4=0 \\ y-3z+3=0 \end{cases} \Rightarrow \begin{cases} x = -3B-1 \\ y = 3B-3 \\ z = B \end{cases}$
 $P_2(-3B-3, 3B-3, B)$
 $\overline{PP_1} \parallel \overline{PP_2}$
 $\overline{PP_1} = (2\alpha, 2+\alpha, \alpha)$
 $\overline{PP_2} = (-3B-3, 3B-3, B+1)$
 $\frac{2\alpha}{-3B-3} = \frac{2+\alpha}{3B-3} = \frac{\alpha}{B+1}$
 $\alpha = B$

may 20-14:11

$A(1,1,1)$
 $\Pi: x-y+z-3=0$
 $r = \begin{cases} x=1 \\ y=3 \end{cases}$
 $P_r(1,3,\alpha)$
 $\overline{AP_r} \perp \overline{n_\Pi}$

may 20-14:18

64

$P(2,-1,1)$
 $s = \begin{cases} x=2 \\ y=-1+2\alpha \\ z=3\alpha \end{cases}$
 $r = \begin{cases} x-3 \\ y+1 \\ z \end{cases} \Rightarrow \frac{x-3}{1} = \frac{y+1}{2} = \frac{z}{3} \Rightarrow$
 $P(3+\alpha, -1+2\alpha, 3\alpha)$
 $\overline{PP_r} \perp \overline{v_r}$

may 20-14:20

65

\perp common a.

may 20-14:22