(x/2)=(-y/3)=(z) (1)

(x-2)/3=(y-1)/-5=(z+2)/2 (2)

3x+2y+6z=0 (1)

10(x-2)+6(y-1)+15(z+2)=0

10x-20+6y-6+15z+30=0

10x+6y+15z+4=0 (2)

x=2t

y=-3t

z=t

x=3t+2

y=-5t+1

z=2t-2

a1(2;-3;1)

a2(3;-5;2)

I	j	k
2	-3	1
3	-5	2

$$= i\,((-3)\cdot 2 - 1\cdot(-5)) - j\,(2\cdot 2 - 1\cdot 3) + k\,(2\cdot(-5) - (-3)\cdot 3) =$$

$$= i\,((-6) - (-5)) - j\,(4 - 3) + k\,((-10) - (-9)) =$$

$$= \{-1;\ -1;\ -1\}$$

a1xa2=(-1;-1;-1)

x y z

2 -3 1 =4x+y-5z=0

-1 -1 -1

x-2 y-1 z+2

3 -5 2 =(x-2)7+(y-1)+2(z+2)=7x-14+y-1+2z+4=7x+y+2z-11=0

-1 -1 -1

3x+2y+6z=0 (1)

10x+6y+15z+4=0 (2)

4x+y-5z=0 (3)

7x+y+2z-11=0 (4)

a)

(1)-(4)=3x+2y+6z-7x-y-2z-11=-4x+y+4z-11

P(-4;1;4)

b)

(2)-(3)=10x+6y+15z+4-4x-y+5z=6x+5y+20z+4

Q(6;5;20)