∴ Both sides are not compatible, so this case is not possible.

Case 3: $p=6K_1+1 \quad q=6K_2+5 \quad r=6K_3+1$

$q=p+d \Rightarrow 6K_2+5=(6K_1+1)+d \Rightarrow d=6(K_2-K_1)+4$

$r=p+2d \Rightarrow 6K_3+1=6K_1+1+12(K_2-K_1)+8$

$=6(2K_2-K_1+1)+3$

(Both sides are not compatible, so this case is not possible)

Case 4: $p=6K_1+1 \quad q=6K_2+5 \quad r=6K_3+5$

$q=p+d \Rightarrow 6K_2+5=(6K_1+1)+d \Rightarrow d=6(K_2-K_1)+4$

$r=p+2d \Rightarrow 6K_3+5=(6K_1+1)+12(K_2-K_1)+8$

$=6(2K_2-K_1+1)+3$

(Both sides are not compatible, so this case is not possible)

Case 5: $p=6K_1+5 \quad q=6K_2+1 \quad r=6K_3+1$

$q=p+d \Rightarrow 6K_2+1=6K_1+5+d \Rightarrow \boxed{6(K_2-K_1-1)+2=d}$

$r=p+2d \Rightarrow 6K_3+1=(6K_1+5)+12(K_2-K_1-1)+4$

$=6(2K_2-K_1-2+1)+3=6(2K_2-K_1-1)+3$

(Both sides are not compatible, so this case is not possible)

Case 6: $p=6K_1+5 \quad q=6K_2+1 \quad r=6K_3+5$

$q=p+d \Rightarrow 6K_2+1=6K_1+5+d \Rightarrow 6(K_2-K_1-1)+2=d$

$r=p+2d \Rightarrow 6K_3+5=6K_1+5+12(K_2-K_1-1)+4=6(2K_2-K_1-2+1)+3$

(Both sides are not compatible, so this case is not possible)

Case 7: $p=6K_1+5 \quad q=6K_2+5 \quad r=6K_3+1$

$q=p+d \Rightarrow d=6(K_1-K_2)$ (Not possible)

$r=p+2d \Rightarrow 6K_3+1=6K_1+5+12(K_1-K_2)$

$=6(2K_2-K_1)+5$