24	eg $(d =)\ (3y - 4) - (2x + 5)\ (= 3y - 2x - 9)$ **or** $(2x+5)+d=3y-4$ oe **or** $(d =)\ (4x - 2) - (3y - 4)\ (= 4x - 3y + 2)$ **or** $(3y-4)+d=(4x-2)$ **or** $(2d =)\ (4x - 2) - (2x + 5)\ (= 2x - 7)$ **or** $(2x+5)+2d=(4x-2)$ oe			6	M1 for a correct expression or equation using the common difference, may be in terms of d for this mark we will allow an expression for $-d$ or $-2d$
	eg $216=\frac{9}{2}\left[2\left(2x+5\right)+(9-1)d\right]$ **or** $216=\frac{9}{2}\left[2(2x+5)+(9-1)"(3y-2x-9)"\right]$ **or** $216=\frac{9}{2}\left[2(2x+5)+(9-1)"(4x-3y+2)"\right]$ **or** $216=\frac{9}{2}\left[2(2x+5)+(9-1)"(x-3.5)"\right]$ **or** $216=\frac{9}{2}\left[2(2("d+3.5")+5)+8d\right]$				M1 for a correct equation for the sum of 9 terms in x and d **or** in terms of x and y **or** in terms of x or in terms of d for "$3y - 2x - 9$ we will allow $(3y - 4) - (2x + 5)$ or for using their incorrect simplification from $(3y - 4) - (2x + 5)$ shown for "$4x - 3y + 2$we will allow $(4x - 2) - (3y - 4)$ or for using their incorrect simplification from $(4x - 2) - (3y - 4)$ shown similarly for their "$x - 3.5$" and their "$d + 3.5$"
	eg $6x-6y=-11$ oe **and** $12y-6x=55$ oe **or** $6x-6y=-11$ oe **and** $18x-12y=11$ oe **or** $2x-2d=7$ oe **and** $8d+4x=38$ **oe** eg $d=x-3.5$ oe **and** $48=12x-18$ oe **or** $x=d+3.5$ oe **and** $48=12d+24$ oe **or** $d=4.75-0.5x$ oe **and** $3x-2=14.5$ oe				M2 **left hand column** 2 correct equations in terms of x and y in the form $px + qy = r$ oe **or** 2 correct equations in terms of x and d in the form $px + qd = r$ oe **right hand column** 2 correct equations in terms of x and y where one is substituted into the other to get a correct equation in the form $px + q = r$ or $py + q = r$ **or** 2 correct equations in terms of x and d where one is substituted into the other to get a correct equation in the form $px + q = r$ or $pd + q = r$ **If not M2 then M1 for one correct equation in any of the required forms from <u>the left hand or right hand column</u>**
	one equation must be from the differences and one equation must be from the sum of the terms				
	Working required	$x=\frac{11}{2}$ $y=\frac{22}{3}$		A2	(dep on M2) oe (allow 7.3(33…)) (A1 for $x=\frac{11}{2}$ **or** $y=\frac{22}{3}$)
					Total 6 marks