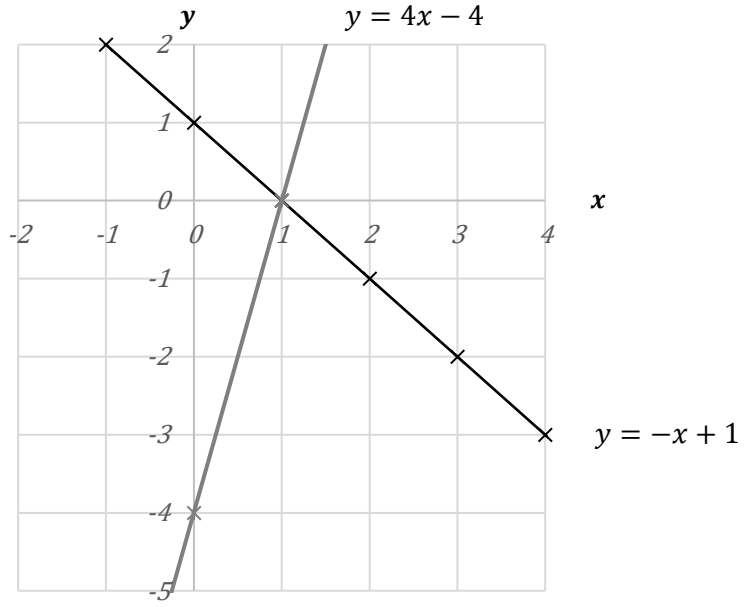
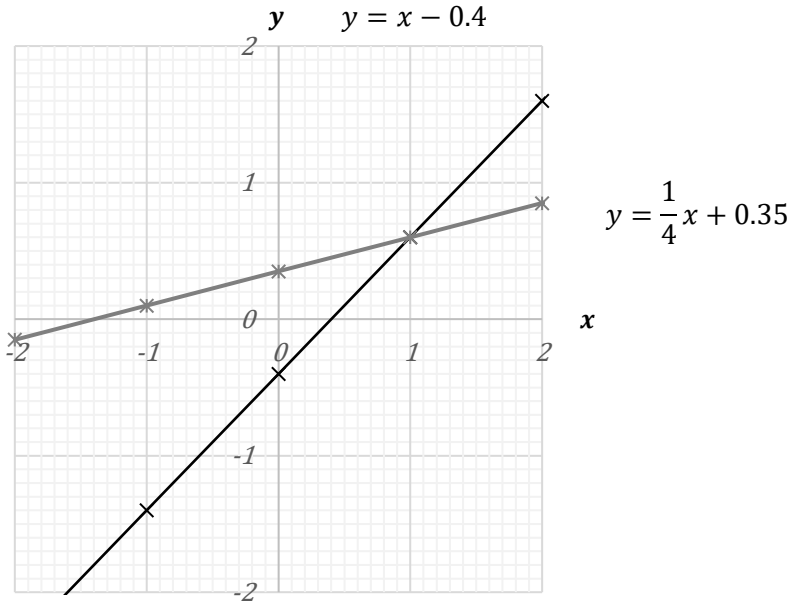
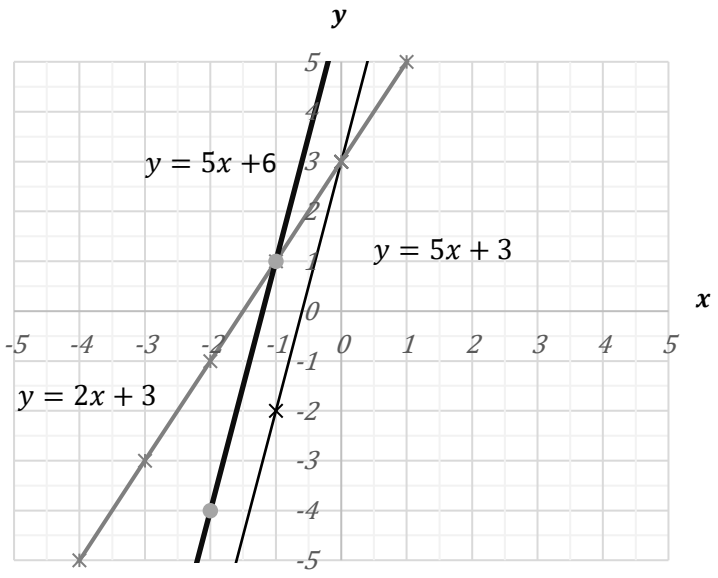
	Solving Simultaneous Equations Graphically Mark Scheme	
1	Attempt to give coordinates of intercept as solutions	[1]
	$(2,2)$ $x = 2$ $y = 2$	[1] Correct coordinates
2(a)		

x	-1	0	1	2	3
y	2	1	0	-1	-2

	Table completed as shown above	[1]
2(b)		
	Graph plotted correctly, Shown above	[1]
	Attempt to give coordinates of intercept as solutions	[1]
	$(1,0)$ $x = 1$ $y = 0$	[1]
3(a)		

x	-2	-1	0	1	2
y	-0.15	0.1	0.35	0.6	0.85

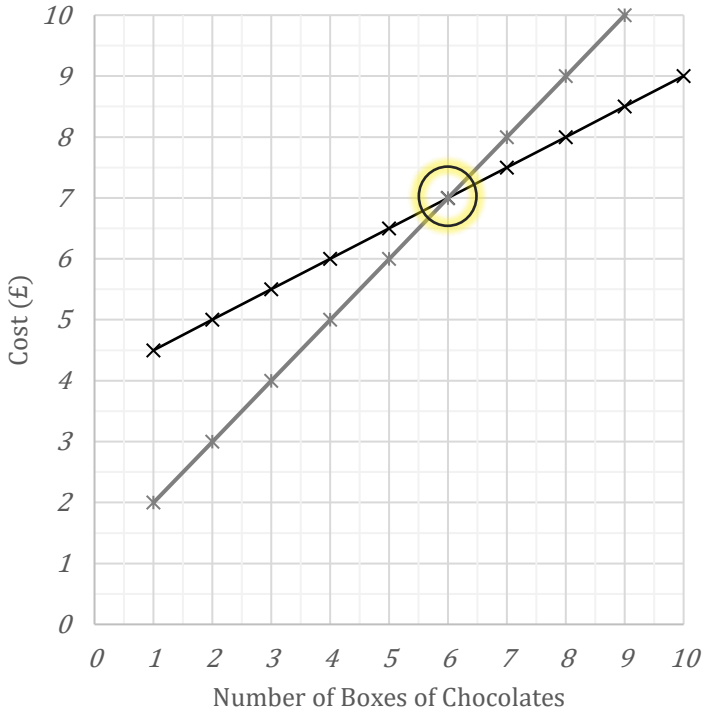
	Table plotted correctly as shown above.	[1]

3(b)		
	Graph plotted correctly as shown above	[1]
	Attempt to give coordinates of intercept as solutions	[1]
	$(1, 0.6)$ $x = 1$ $y = 0.6$	[1]
4(a)		
	Graph plotted correctly as shown.	[1]
4(b)	Attempt to give coordinates of intercept as solutions	[1]
	$(-1, 1)$ $x = -1$ $y = 1$	[1]
4(c)	The two lines are parallel they both have the same gradient of 5.	[1] Any statement that indicates no intersection of the two lines.

5	$\boldsymbol{ChocZ\ cost = (0.5 \times number\ of\ boxes) + 4}$ $\boldsymbol{Sweets2Go\ cost = (1 \times number\ of\ boxes) + 1}$	[1]

Number of boxes	1	2	3	4	5	6	7	8
ChocZ (£)	4.50	5	5.50	6	6.50	7	7.50	8
Sweets2Go Cost (£)	2	3	4	5	6	7	8	9

	Using equations to find coordinates to plot for chocz and Sweets2go. As shown in the table above.	[2]



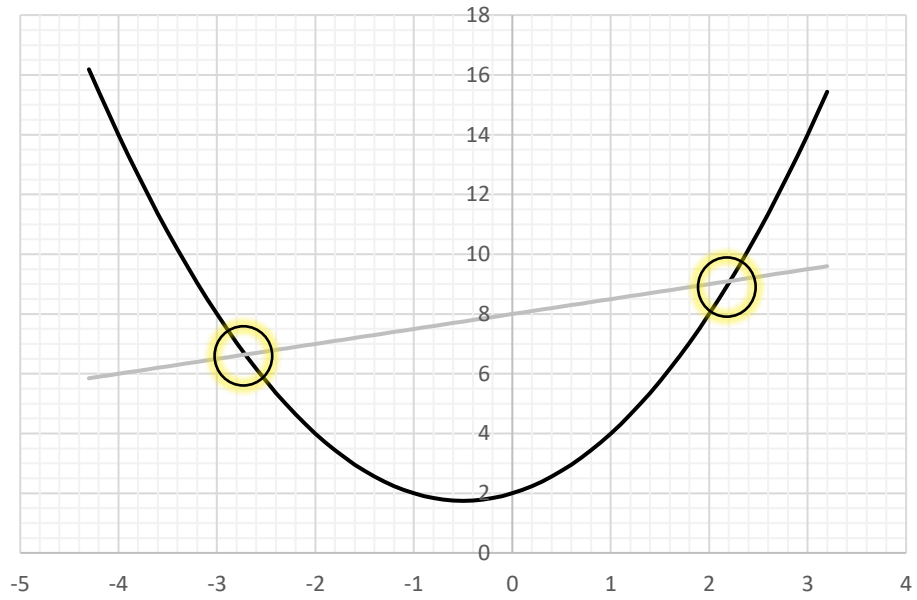
	Correct lines plotted	[2] 1 mark for each line
	6th box has the same cost. 7th box will be cheapest.	[1]

6(a)

x	-4	-3	-2	-1	0	1	2	3
y	6	6.5	7	7.5	8	8.5	9	9.5

Table completed as shown above	[1]

6(b)



Attempt to give coordinates of intercept as solutions	[1]
Identifying two solutions available.	[1]
$Solution\ 1: (-2.6, 6.6)$ $x_1 = -2.6$ $y_1 = 6.6$ $Solution\ 2: (2.2, 9)$ $x_2 = 2.2$ $y_2 = 9$	[1] Solution 1 correct [1] Solution 2 correct

END