

Algebra Revision

3

(a)
An apple costs 20p and a banana costs 25p. Write a formula for the total cost C of x apples and y bananas.

(b)
Solve $4x + y = 13$
 $2x - 3y = 17$

(c)
Expand and simplify
 $(2x - 1)(3x + 5)$

(d)
(i) Factorise
 $x^2 + 2x - 35$

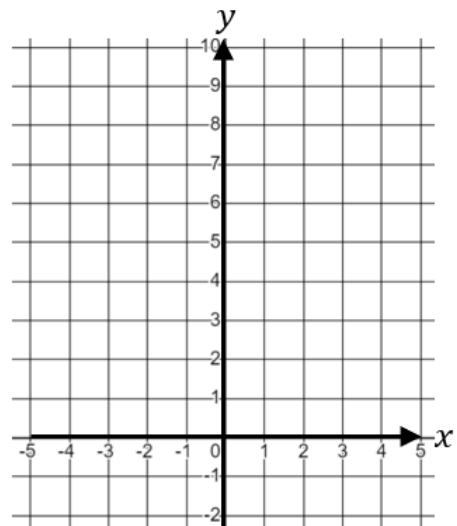
(ii) Hence solve
 $x^2 + 2x - 35 = 0$

(e)
Plot the graph of $y = 5 - 2x$

x	-2	-1	0	1	2
y					

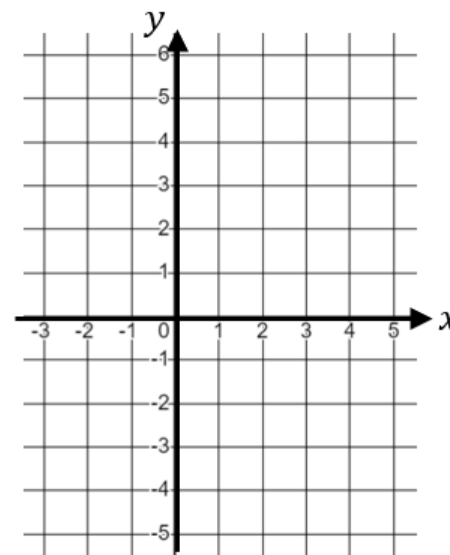
(f)
Plot the graph of
 $y = x^2 - 2x - 3$

x	-2	-1	0	1	2	3	4
y							



(g)
Solve
 $-5 < 2x + 3 \leq 4$

(i)
Find the y-intercept of the straight line with equation
 $2y - 5x = 6$



(h)
Use the graph to convert 50 euros into Japanese Yen

