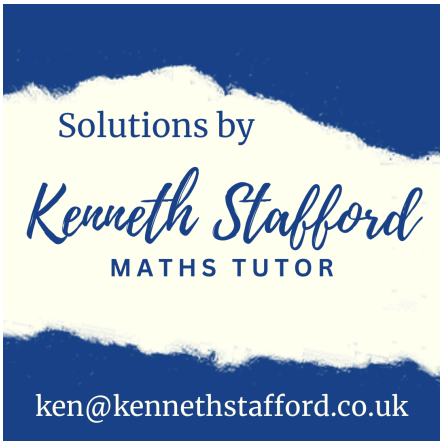
Name: SOLUTIONS

GCSE (1 - 9)

Solving Simultaneous Equations Graphically

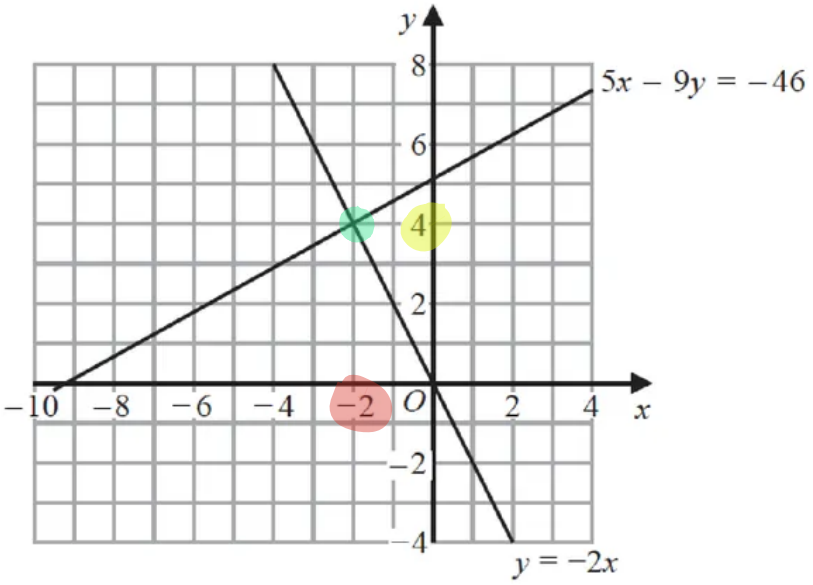




These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2020, Paper 3F, Q28
2	Edexcel, GCSE, Summer 2019, Paper 1H, Q10
3	Edexcel, GCSE, Summer 2023, Paper 1F, Q28

1



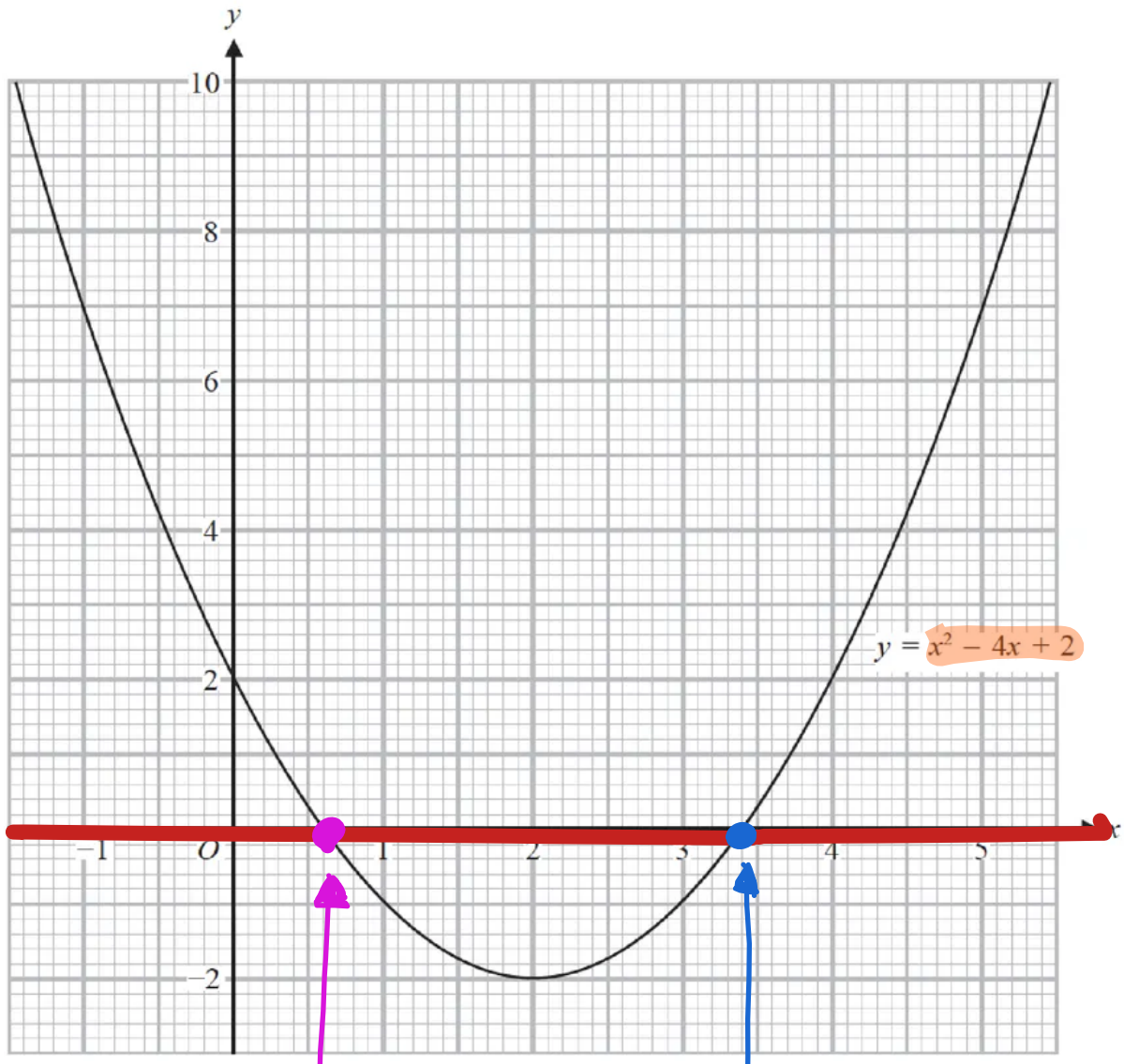
(a) Use these graphs to solve the simultaneous equations

$$5x - 9y = -46$$
$$y = -2x$$

$x =$ −2

$y =$ 4

(1)



(b) Use this graph to find estimates for the solutions of the quadratic equation $x^2 - 4x + 2 = 0$

0·6 and 3·4

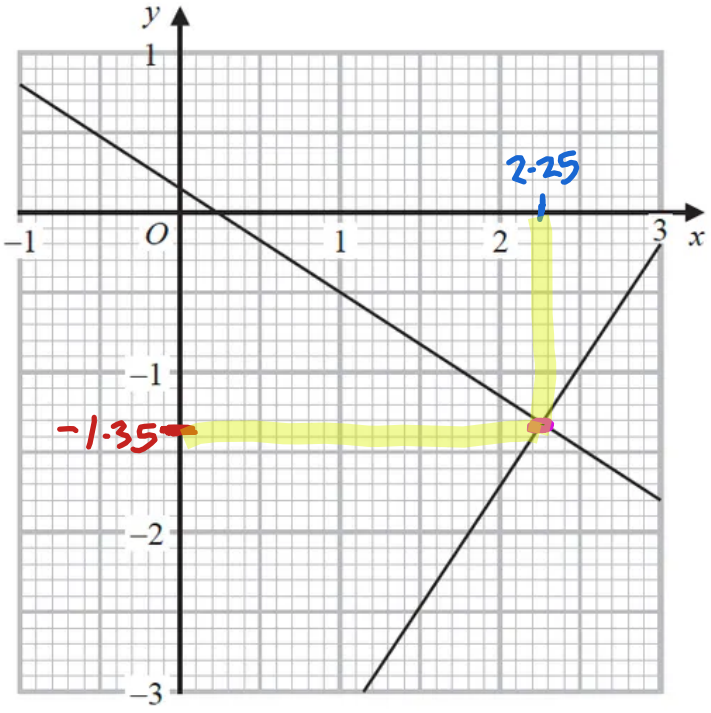
(2)

(Total for Question 28 is 3 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q28]

2

The graphs with equations $3y + 2x = \frac{1}{2}$ and $2y - 3x = -\frac{113}{12}$ have been drawn on the grid below.



Using the graphs, find estimates of the solutions of the simultaneous equations

$$3y + 2x = \frac{1}{2}$$

$$2y - 3x = -\frac{113}{12}$$

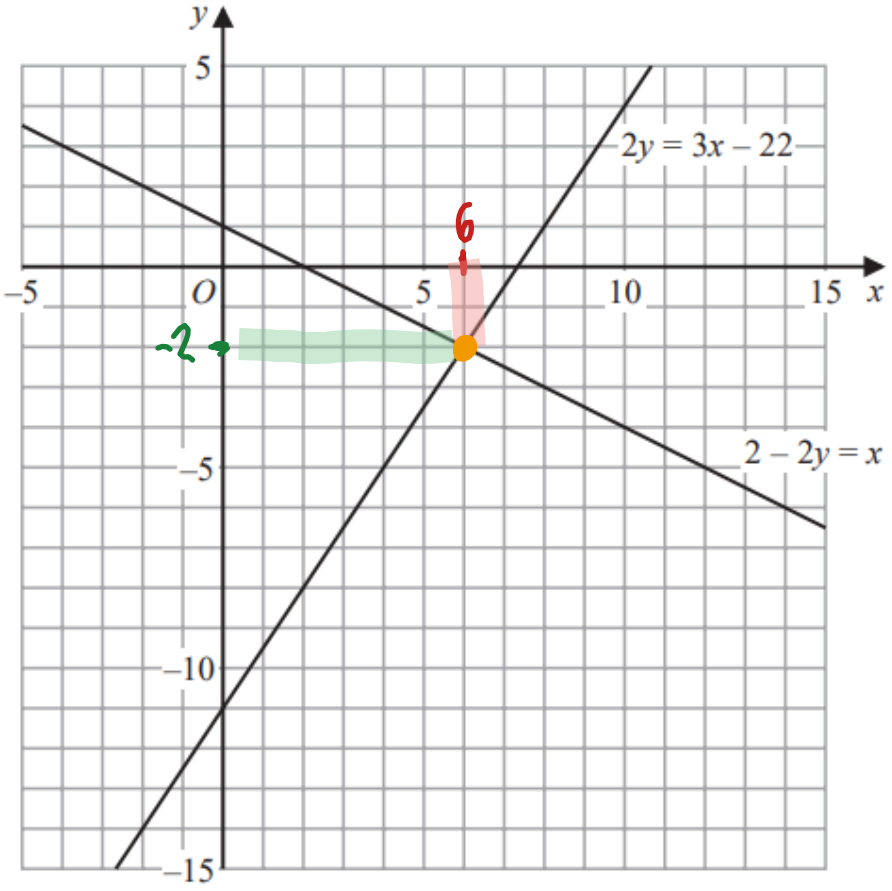
$x =$ 2·25

$y =$ −1·35

(Total for Question 10 is 2 marks)

[Edexcel, GCSE, Summer 2019, Paper 1H, Q10]

3



Use these graphs to solve the simultaneous equations

$$2 - 2y = x$$
$$2y = 3x - 22$$

$x =$ 6

$y =$ -2

(Total for Question 28 is 1 mark)

[Edexcel, GCSE, Summer 2023, Paper 1F, Q28]