

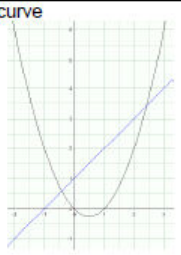
## SOLVING SIMULTANEOUS EQUATIONS GRAPHICALLY

Pearson Edexcel - Monday 8 June 2020 - Paper 3 (Calculator) Foundation Tier

1.

28	(a)	-2, 4	B1	cao	If answers are stated as coordinates, award M1 for both coordinates and M0 for one coordinate. With no extras
	(b)	0.55 to 0.65, 3.35 to 3.45	M1	for correct method, eg marking intercepts with x-axis or one correct answer or both solutions given as a coordinate eg (0.6, 3.4) or (0.6, 0) (3.4, 0)	
			A1	for answers in the ranges 0.55 to 0.65 and 3.35 to 3.45	

2.

22	a	2 0	2	B1 for each	
	b	Correct curve 	3	B2FT for all points correctly plotted or B1FT for 4 or 5 points correctly plotted	FT their values from the table in (a) for points but accept only the correct curve. Accuracy $\pm$ half small square Correct curve must have at least one square of daylight below x-axis at minimum point and not intended straight
	c	-[0].4 and 2.4	2	Correct answer or FT <i>their</i> graph for both B1 for each	-0.45 to -0.35 and 2.35 to 2.45 FT from <i>their</i> line with half square accuracy (may be straight)

OCR Thursday 07 November 2019- Morning (Non-Calculator) Foundation Tier

3.

13	(a)	(i)	$y = 2$ sketched correctly with 2 indicated on y-axis as y-intercept	2	M1 for a horizontal line	Condone good freehand
13	(a)	(ii)	$y = x + 1$ sketched correctly with 1 indicated as y-intercept	2	M1 for any straight line with positive gradient or for y- intercept at 1	Condone good freehand
13	(a)	(iii)	y-value where they cross has to be 2 oe	1		Isw extra statements. Accept eg (2, 3) is not on $y = 2$ as the y coordinate is 3 they cross at (1, 2) they cross when $x = 1$  See AG
13	(b)		Should go through (0, 0) oe Should be a curve oe No numbers on axis/axes oe It is symmetrical oe	2	B1 for each to a max of 2	If more than two comments, mark the best two  See AG

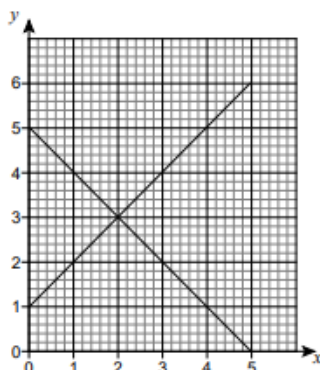
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4.

24	$y = 6x + 2$ oe final answer	4	<p>B3 for <math>6x + 2</math> final answer or <math>y = 6x + 2</math> oe but spoiled to final answer OR B2 for <math>y = 6x + k</math> oe <math>0 &lt; k &lt; 7</math> or for <math>y = mx + 2</math>, <math>m &gt; 0</math> and <math>m \neq 6</math> or B1 for gradient or <math>m = 6</math> stated or for <math>y = 6x</math> or for <math>[y =] 6x + k</math> <math>k \neq 0</math> or <math>7</math> oe or for <math>mx + 2</math>, <math>m &gt; 0</math> and <math>m \neq 6</math></p> <p>B0 for <math>y = 6x + 7</math> (as given)</p>	<p>Accept <math>y - 26 = 6(x - 4)</math> as equivalent</p> <p>Do not allow other letters for <math>x</math></p> <p><u>Alternative methods</u> M1 for <math>6 \times 4 + 7</math> soi 31 M1 for their <math>31 - 26</math> soi 5 M1 for <math>7 -</math> their 5 OR M1 for <math>[\pm]6 \times 4</math> soi 24 or <math>-24</math> M1 for <math>26 -</math> their 24 soi 2 M1 for <math>6x +</math> their 2</p>
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AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

5.

17(a)	<p>Straight line through (0, 1), (1, 2), (2, 3), (3, 4), (4, 5) and (5, 6)</p> 	B2	B1 Two correct points plotted
17(b)	$x = 2$ and $y = 3$	B1ft	ft their linear graph from (a)