Equation of a Line

Question	Answer	Mark	Mark scheme	Additional guidance
25 (a)	$y = \frac{3}{2}x + 3$	M1	for a correct method to find the gradient of the line, eg $\frac{6-3}{2-0}$ $(=\frac{3}{2})$ **or** identifies 3 as the intercept in words or in a partial equation **or** for $y = [\frac{3}{2}]x + c$ **or** for $y - b = [\frac{3}{2}](x - a)$ where (a, b) is a correct coordinate	Just circling 3 is insufficient $[\frac{3}{2}]$ must be identifiable as their gradient c must be seen either as a letter or a number
		M1	for $y = \frac{3}{2}x$ $(+ c)$ oe **or** for $y =$ "$\frac{3}{2}$"$x + 3$, $m \neq 0$ **or** (**L** =) $\frac{3}{2}x + 3$ **or** $y - y_1 = \frac{3}{2}(x - x_1)$ **or** $y - b =$ "$\frac{3}{2}$"$(x - a)$ where (a, b) is a correct coordinate	Award of this mark implies the first M1
		A1	oe	Any correct equation gets 3 marks
(b)	Equation	B1	for $y = 5x + c$, $c \neq 0$ oe	May be in any equivalent form

Question	Answer	Mark	Mark scheme	Additional guidance
27	$y = -2x + 3$	M1	for a correct method to find the gradient of the line, eg $\frac{-1-3}{2-0}(=-2)$	
			or identifies 3 as the intercept in words or in a partial linear equation eg $y = mx + 3$ oe eg $y = 1.5x + 3$	Just circling 3 is insufficient
			or for $y = [-2]x + c$	[−2] can be any numerical value, c must be seen as a letter or a number
			or for $y - b = [-2](x - a)$ where (a, b) is a correct coordinate	[−2] can be any numerical value
		M1	for $y = -2x$ (+ c)	Award of this mark implies the first M1
			or for $y =$ "−2"$x + 3$, $m \neq 0$	
			or for (L =) $-2x + 3$	
			or $y - y_1 = -2(x - x_1)$	
			or for $y - b = "-2"(x - a)$ where (a, b) is a correct coordinate	
		A1	for $y = -2x + 3$ oe	Any correct equation gets 3 marks

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Question	Answer	Mark	Mark scheme	Additional guidance
28	$y = -2x + 3$	M1	for a correct method to find the gradient of the line, eg $\frac{-1-3}{2-0}$ $(= -2)$ **or** uses 3 as the intercept in $y = mx + c$, eg $y = mx + 3$ oe, $y = 1.5x + 3$	
		M1	for $y = [-2]x + c$ or for (L=) $3 - 2x$ or uses their gradient and a point on the line, eg $y - -1 = [-2](x - 2)$	$[-2]$ must be identifiable as their gradient
		A1	for $y = -2x + 3$ oe	Any correct equation gets 3 marks

Question	Answer	Mark	Mark scheme	Additional guidance
28 (i)	−4	B1	cao	
(ii)	(0, 3)	B1	cao	

June 2020 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
29	2	B1	cao	