WJEC	C Past Paper Questions Additional Maths Topic: Coordinate Geometry					
	EC June 2018 Q11					
The	coordinates of the points A and B are (10, 16) and (-6, 8) respectively.					
(a)	(a) Calculate the length of the line $AB$ . Express your answer as a surd in its simplest form, $n\sqrt{m}$ .					
(b)	Find the equation of the straight line <b>perpendicular</b> to <i>AB</i> that passes through midpoint of <i>AB</i> .  Express your answer in the form $y = mx + c$ .  Give your answer in its simplest form.	the [8]				
WJEC Summer 2014 Q13						
The	following equations represent straight lines.					
	2x + 4y = 7					
	2x + 5y = 7					
	x + 2y = 7					
	4x - 2y = 7					
	2x - 4y = 7					
(a)	Which equations represent lines that are parallel? You must explain how you know that these lines are parallel.	[2]				
(b)	Write down any two of the equations that represent lines that are perpendicular. You must explain how you know that these lines are perpendicular.	[3]				
WJE	C June 2011 Q3					
The	coordinates of the points A and B are $(2, 8)$ and $(4, -6)$ respectively.					
(a)	Calculate the length of the line $AB$ .					
		[2]				

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Find the equation of the straight line perpendicular to AB that passes through the mid-point of AB.

[7]

	C Past Paper Questions EC June 2017 Q6	Additional Maths	Topic:	Coordinate Geom	netry			
The coordinates of the points $F$ and $G$ are (8, 20) and (-4, 10) respectively.								
(a)	Calculate the length of the line $FG$ . Express your answer as a surd in its simplest form, $n\sqrt{m}$ . [3]							
(b)	Find the equation of the point of FG. Express your answer in the Give your answer in its s	the form $ax + by + c = 0$			he mid-			
WJE	EC June 2016 Q7							
The	coordinates of the points F	and G are (-2, 14) and (4	4, 6) respectiv	vely.				
(a)	Calculate the length of the	e line FG.			[2]			
(b)	Find the gradient of the s	traight line that passes th	rough points	F and G.	[2]			
(c)	Find the equation of the s  passes through the  sis perpendicular to the	mid-point of the line FG,	and					
	Express your answer in the	the form $ax + by + c = 0$ , w	here a, b and	c are integers.	[6]			
WJEC June 2015 Q4								
The	coordinates of the points D	and E are (6, 22) and (-4,	14) respective	ely.				
(a)	Calculate the length of the Express your answer as a		$n\sqrt{m}$ .		[3]			
(b)	mid-point of DE.	traight line perpendicular the form $ax + by + c = 0$ , where $ax + by $	•		[8]			
WJEC June 2014 Q7								
The	coordinates of the points D	and E are (-1, 13) and (5,	5) respective	ly.				
(a)	Calculate the length of the	line DE.			[2]			
(b)	Find the gradient of the str	aight line that passes thro	ough points D	and E.	[2]			
(c)	Find the equation of the str Express your answer in the				[4]			

	Past Paper Questions	Additional Maths	Topic:	Coordinate Geometry	
	C June 2013 Q4 coordinates of the point	s $A$ and $B$ are $(3, 9)$ and	(-5, 7) resp	ectively.	
(a)	Calculate the length of the line $AB$ . Express your answer as a surd in its simplified form $a\sqrt{b}$ .				
				[3]	
(b)	You will be assessed on the quality of your written communication in this part of the question.				
	Find the equation of the straight line perpendicular to $AB$ that passes through the midpoint of $AB$ . Express your answer in the form $y = mx + c$ .				
	***************************************			[10]	
WJE	C June 2012 Q7				
The	coordinates of the point	s R and S are (5, 7) and (	15, 31) respe	ectively.	
(a)	Calculate the length of	f the line RS.			
				[2]	
(b)	Find the gradient of a s	traight line perpendicula	r to RS.		
				[3]	