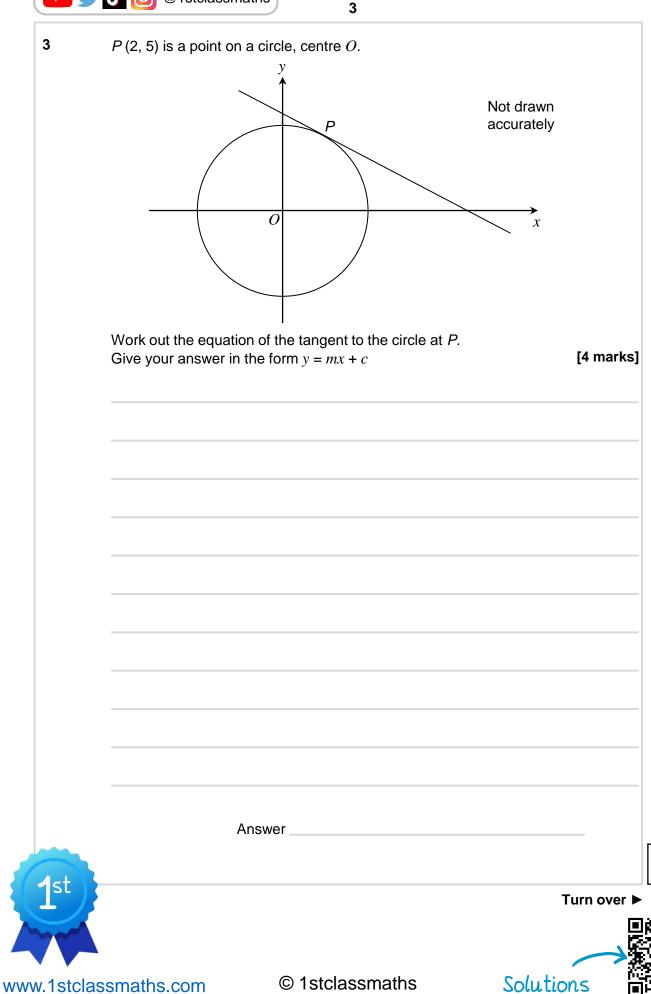
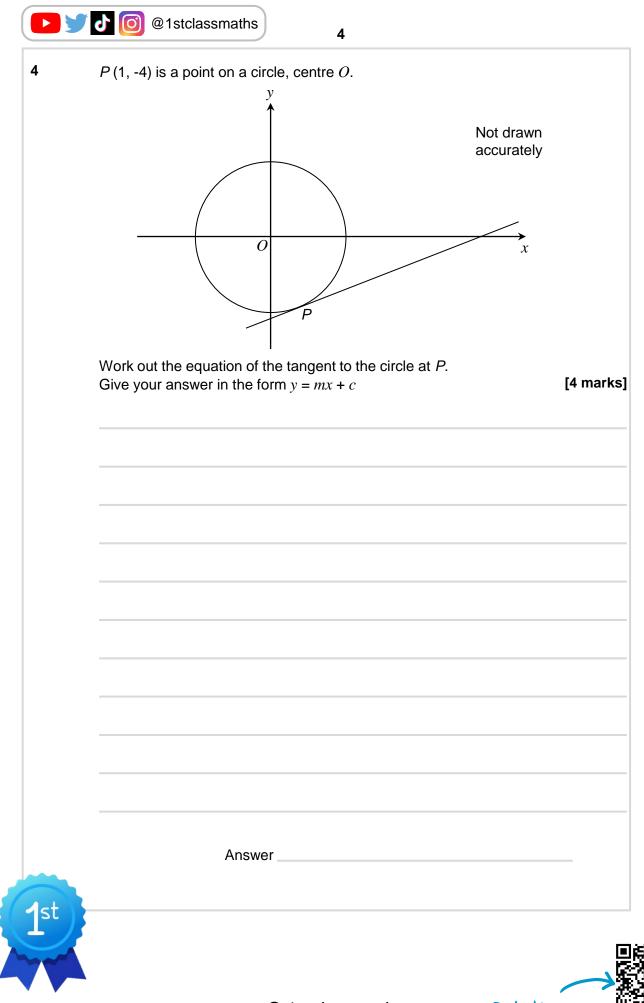


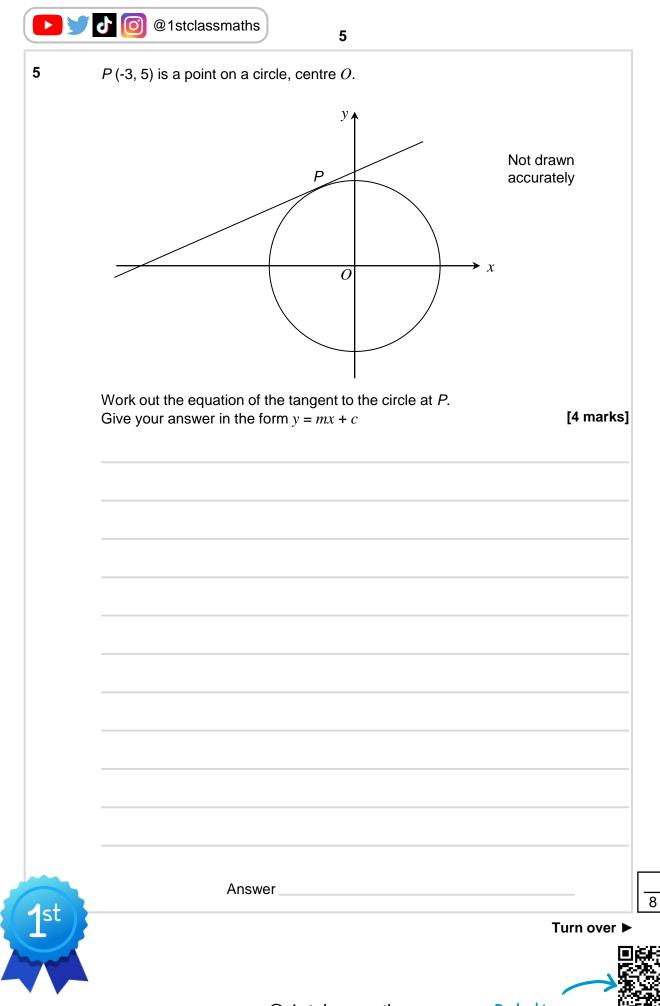
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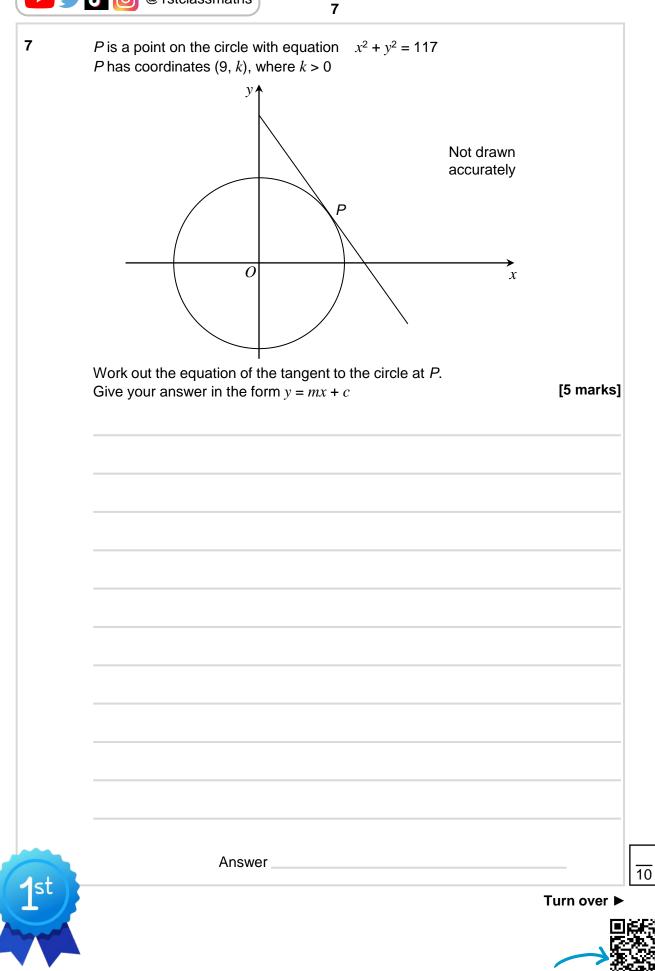


	P has coordinates (7, k), where $k < 0$	Not drawn accurately
	O P	
	/ I Work out the equation of the tangent to the circle at <i>P</i> . Give your answer in the form $y = mx + c$	[5 marks]
	Answer	

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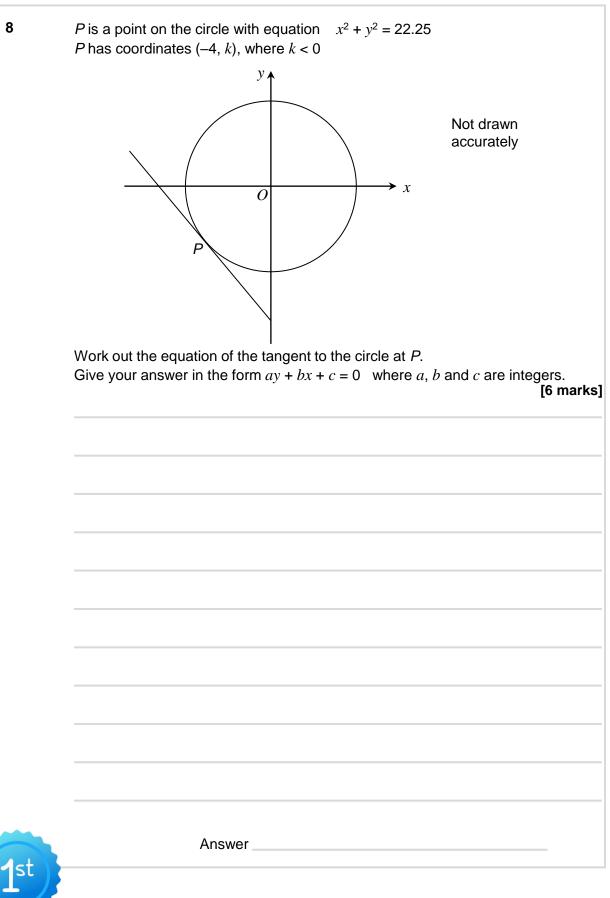






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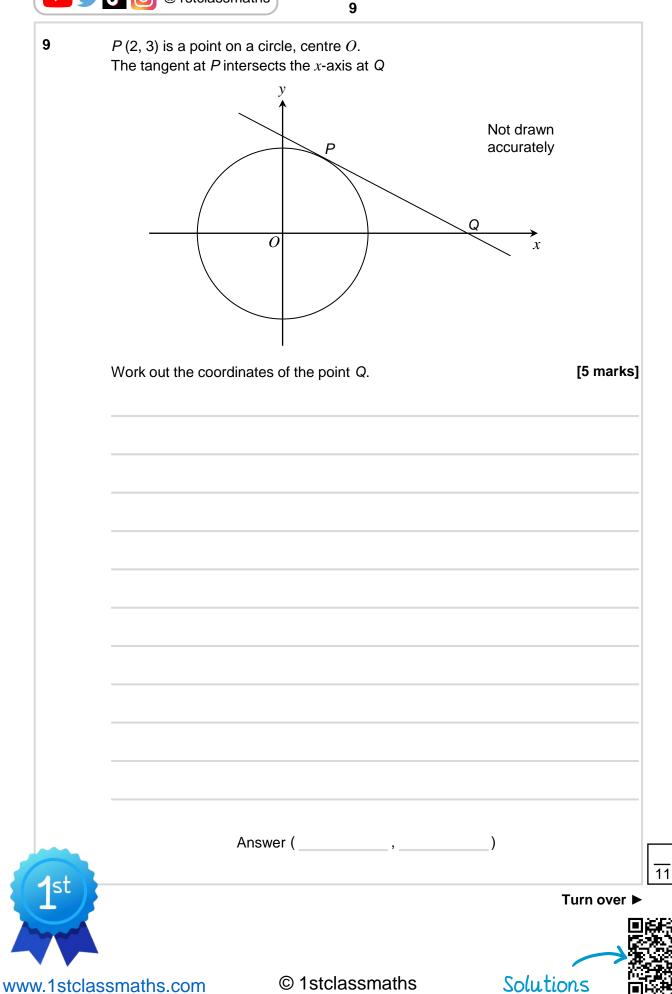
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	10	
	(14, -4) is a point on a circle, centre O . The tangent at P intersects the y-axis at A	
	y 1	
		Not drawn accurately
	$ \longrightarrow x $	
	Р	
	A	
	7	
We	ork out the coordinates of the point A.	[5 marl
_		
_		
_		
	Answer (,,)
1 st		
· •		



	A Not drawn accurately	
	Work out the area of triangle <i>AOB</i> .	[6 marks]
	Answer	units ²
st		Turn over ►

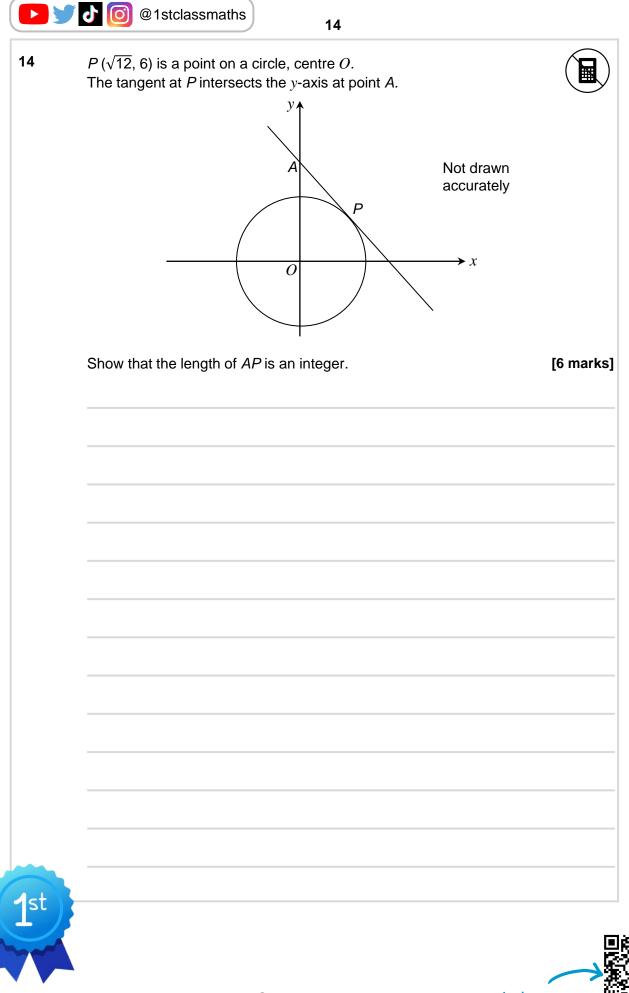
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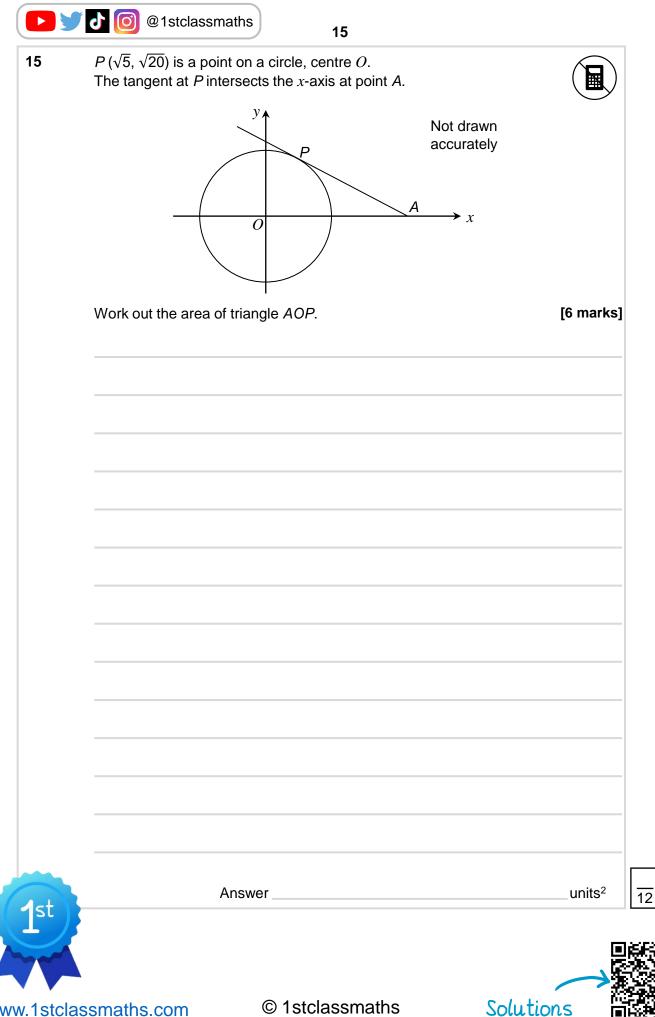
	The tangent at <i>P</i> intersects the axes at points <i>A</i> and <i>B</i> . $y \uparrow$	
		drawn Irately
	$\begin{array}{c c} A \\ \hline \\ O \\ \hline \\ \end{array} \\ \end{array} \\ x$	
	Work out the length of <i>AB</i> . Give your answer in the form $a\sqrt{5}$ where <i>a</i> is an integer.	[6 mark
1 st	Answer	units
		\sim



13	P (5, 2) is a point on a circle, centre O . The tangent at P intersects the axes at points A and B .	
	× ^y ↑	
		ot drawn ccurately
	P	conately
	, B	
		\xrightarrow{x}
	Work out the length of <i>AB</i> . Give your answer to 4 significant figures.	[6 marks]
		[· ·····]
1st	Answer	
		Turn over ►



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