Question	Answer	Mark	Mark scheme	Additional guidance
22	Proof	C1	for angle OAP = angle OBP = 90 angle between radius and tangent is 90^o	May be seen as 2 separate diagrams
		C1	for $OA = OB$ both radii	All reasons given must be clearly linked to the appropriate statement
		C1	OP is common	Underlined words need to be shown
		C1	(dep on C3) for a complete proof with all reasons given, eg triangles OAP and OBP are congruent RHS so $AP = BP$ or $AP = \sqrt{OP^2 - OA^2}$ and $BP = \sqrt{OP^2 - OB^2}$ and $OA = OB$ so $AP = BP$	
22 **ALT**	Proof	C1	for $\cos AOP = \frac{AO}{OP} = \frac{r}{OP}$ or $\cos BOP = \frac{BO}{OP} = \frac{r}{OP}$ angle between radius and tangent is 90^o	May be seen as 2 separate diagrams
		C1	for $\cos AOP = \frac{AO}{OP} = \frac{r}{OP}$ **and** $\cos BOP = \frac{BO}{OP} = \frac{r}{OP}$ **and** $AOP = BOP$ both radii	
		C1	OP is common	Underlined words need to be shown
		C1	(dep on C3) for a complete proof with all reasons given, eg triangles OAP and OBP are congruent SAS so $AP = BP$	