

Question	Answer	Mark	Mark scheme	Additional guidance
8	35.8	P1	<p>for start of process to find QS, eg $QS^2 + 15^2 = 39^2$ oe or $(QS^2 =) 39^2 - 15^2 (= 1296)$ oe or for starting to use 5, 12, 13 triangle, eg $15 \div 5$ or $39 \div 13$</p> <p>P1 for complete process to find QS, eg $(QS =) \sqrt{39^2 - 15^2} (= 36)$ or $15 \div 5 \times 12 (= 36)$</p> <p>P1 for relationship involving angle QRS, eg $\tan QRS = \frac{36}{50}$ oe or $\tan QRS = \frac{[QS]}{50}$ oe</p> <p>eg $\sqrt{36^2 + 50^2} (= \sqrt{3796})$ and $36^2 = 50^2 + \sqrt{3796}^2 - 2 \times 50 \times \sqrt{3796} \cos QRS$ oe</p>	<p>Trigonometry may be used but must lead to a relationship involving QS</p> <p>May use $QRS = 90 - QSR$ Pythagoras may be used but must lead to a relationship involving QS $[QS]$ must be numerical and clearly identified by labelling or on the diagram with no contradiction ($[QS] > 39$ is not a contradiction)</p> <p>If correct answer is seen and then incorrectly rounded award full marks</p>
		A1	for angle 35.7 – 35.8	