

Pythagoras

## June 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
20	16.2	M1	for a correct first step to find $BC$ , eg $19^2 = 10^2 + BC^2$ or $19^2 - 10^2 (= 261)$ or $\sqrt{19^2 - 10^2}$ or $\sqrt{261}$ or $3\sqrt{29}$	Can use alternative letter for $BC$ provided intention is clear If using an alternative method using trigonometry must have $BC$ as the only unknown
		A1	for answer in the range 16.1 to 16.2	ISW incorrect rounding if answer given in range

June 2022 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
22	7.5	M1  A1	for correct use of Pythagoras, eg. $8.5^2 - 4^2 (= 56.25)$ or $4^2 + x^2 = 8.5^2$  for 7.5 or $7\frac{1}{2}$ or $\frac{15}{2}$	Must have values substituted Trigonometry may be used but M1 only awarded when complete method shown.

## November 2021 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
25	41.6	P1	for start of process to find the length of the hypotenuse, eg (hyp <sup>2</sup> =) $8^2 + 10^2 (= 164)$	Note lengths may be seen on the diagram
		P1	for complete process to find hypotenuse, eg $\sqrt{8^2 + 10^2}$ or $\sqrt{64 + 100}$ or $2\sqrt{41}$ or $\sqrt{164}$ (= 12.8...)	
		P1	(dep P2) for complete process to find the required perimeter, eg $8 + 8 + 10 + "12.8" + "12.8 - 10"$ or $16 + 4\sqrt{41}$	$8 + 8 + "12.8" + "12.8"$ oe is acceptable for this mark
		A1	for answer in the range 41 to 42	If an answer in the range 41 to 42 is given in the working space then incorrectly rounded, award full marks.