Q1. (2017)

20	16	B1	

Q2. (2017)

27	$\frac{4-0}{-1-0}$ or -4	M1	oe
	$-1 \div$ their -4 or $\frac{1}{4}$	M1	oe their -4 must be their gradient of OP
	$y-4 = \text{their}\frac{1}{4}(x--1)$ or $4 = \text{their}\frac{1}{4}(-1)+c$	M1dep	oe dep on second M1 oe $c = 4.25$
	$y = \frac{1}{4}x + \frac{17}{4}$ or $y = 0.25x + 4.25$	A1	oe eg $y = 0.25x + 4\frac{1}{4}$ Accept $y = \frac{x+17}{4}$
	Additional Guidance		
	An answer of $4y = x + 17$, with or without the correct answer seen		M1M1M1A0
	For A1, allow a mixture of fractions, decimals and mixed numbers		
	$y-y_1 = m(x-x_1)$ stated, followed by $y-4 = \frac{1}{4}(x--1)$ oe		M1M1M1

Q3. (2023)

Q	Answer	Mark	Comments
	Alternative method 1		
	$20\pi \div 2\pi$ or 10	M1	oe may be seen on diagram implied by diameter = 20
	$x^2 + x^2 = (\text{their } 10)^2$ or $2x^2 = 100$ or $x^2 = 50$ or their $10 \times \sin 45$ or their $10 \times \cos 45$ or their $10 \times \frac{1}{\sqrt{2}}$	M1	oe any letter (condone a) their 10 is their length OQ (the radius of the circle)
26	$\sqrt{\text{their } 10^2 \div 2}$ or $\sqrt{50}$ or $5\sqrt{2}$ or $4 \times \sqrt{50}$ or $4 \times$ their $10 \times \sin 45$ or $4 \times$ their $10 \times \cos 45$ or $40 \times \frac{1}{\sqrt{2}}$ or $\frac{40\sqrt{2}}{2}$ or $20\sqrt{2}$	M1dep	oe value for the length of one side of the square or the perimeter of the square eg $\frac{10}{\sqrt{2}}$ dep on previous mark
	2 with full working seen for M3	A1	