

Q1. (2017)

(A)

24(a)	$2x + 10 = 3x - 20$	M1	oe $180 - (2x + 10) + 3x - 20 = 180$
	$3x - 2x = 20 + 10$ or $x = 30$	M1dep	oe
	$2 \times \text{their } 30 + 10$ or $3 \times \text{their } 30 - 20$ or 70	M1dep	oe
	110	A1	
	Additional Guidance		
	$x = 30, y = 180 - 3(30) + 20 = 110$		M1M1M1A1
	$x = 30, y = 180 - 3(30) - 20 = 110$ recovered missing bracket		M1M1M1A1
	$x = 30, y = 180 - 3(30) - 20 = 70$ not recovered		M1M1M0A0
	$2x + 10 = 3x - 20$ $3x - 2x = 20 + 10$ $x = 10$ $2 \times 10 + 10 (= 30)$		M1M1M1A0
	$2x + 10 = 3x - 20$ $x = 10$ $2 \times 10 + 10 (= 30)$		M1M0M0A0
	$y + 2x + 10 = 3x - 20 + y$		M1M0M0A0
	$w = 3x - 20$ seen or on diagram		M0M0M0A0
	$w = 2x + 10$ seen or on diagram		M0M0M0A0

(B)

24(b)	$2x + 10 = 60$ or $2x = 60 - 10$ or $2x = 50$ or $x = 25$	M1	
	$3 \times \text{their } 25 - 20$ or 55 or $180 - 55$ or 125	M1dep	oe
	$(y =) 125$ and bigger or $(y \text{ is}) 15$ bigger	A1ft	oe ft their (a)
	Additional Guidance		
	Note: A complete logical explanation of the effect of lines not being parallel eg w is smaller so $2x + 10$ is smaller so x is smaller so $3x - 20$ is smaller so y is bigger		M1M1A1
	$2 \times 25 + 10 = 60$		M1M0A0
	y is bigger ticked but no valid working		M0M0A0

Q2. (2020)

Q	Answer	Mark	Comments
21	$y = 5x - 2$	B1	

Q3. (2023)

Q	Answer	Mark	Comments
13	No ticked and appropriate working to show AB and CD are not parallel	B2	B1 any correct angle on the diagram eg 105 opposite the 105 given eg 85 written next to the 95 given or any correct angle which assumes lines are parallel eg 95 written opposite the 105 given or any correct angle evaluation seen in working eg $180 - 105 = 75$
	Additional Guidance		
	Angles must be shown on diagram or clearly identified to score B2		
	Ignore any incorrect or irrelevant terminology alongside correct working		
	"No" may be implied		
	Condone an incorrect angle if not subsequently used		
	Crossed out angles on diagram may be used to support working		
	No and 95 should be 105		B2
	No and 95 written opposite the given 95 and 95 is not equal to 105		B2
	No and 105 opposite the given 105 and 85 next to the 95 and $105 + 85 = 190$ (or should be 180)		B2
	No and 85 written next to the given 95 and 75 written next to the given 105 and $85 \neq 75$		B2
	No and 75 written alongside 105 and 75 written underneath 95 and $95 + 75 = 170$ (or should be 180)		B2
	No and 95 written opposite 105 and the other two angles 75 and $95 + 75 + 75 + 105 = 350$ (or should be 360)		B2
	95 + 105 = 200 is not a correct angle evaluation No and 95 + 105 = 200 and if it is 180 they will be parallel		B0

Q4. (2024)

Q	Answer	Mark	Comments
11(b)	$(8, -1)$	B1	SC1 $(-1, -2)$ in (a) and $(-1, 8)$ in (b)
	Additional Guidance		
	Check the diagram if answer line is blank		