Question	Answer	Mark	Mark scheme	Additional guidance
14 (a)	–2.5	M1	for drawing a tangent at $t = 5$	No tangent drawn score 0 marks
		M1	(dep on M1) for a complete method to find the gradient eg tangent at $t = 5$ and "10" ÷ "4" **or** an answer in the range 2.0 to 2.8	Working may be seen on the diagram
		A1	for answer in the range –2.0 to –2.8 dependent on tangent drawn	Accept answers in the form $\frac{a}{b}$ where a and b are integers
(b)	79	M1	for a method to find an estimate for the area of at least 1 trapezium under the curve, eg $\frac{1}{2} \times 2 \times (25 + 16)$ $(= 41)$ oe or $\frac{1}{2} \times 2 \times (16 + 9)$ $(= 25)$ oe or $\frac{1}{2} \times 2 \times (9 + 4)$ $(= 13)$ oe **or** for a method to find an estimate for the area of at least 1 rectangle with heights at intersection of midpoint and curve, eg 2×20.5 $(= 41)$ oe or 2×12.5 $(= 25)$ oe or 2×6 $(= 12)$ oe	May be seen as a rectangle added to a triangle Allow consistent use of incorrect width for both M marks
		M1	for a complete method, eg $\frac{1}{2} \times 2 \times (25 + 16) + \frac{1}{2} \times 2 \times (16 + 9) + \frac{1}{2} \times 2 \times (9 + 4)$ oe or $\frac{1}{2} \times 2 \times (25 + 4 + 2(16 + 9))$ **or** $(2 \times 20.5) + (2 \times 12.5) + (2 \times 6)$	Allow 1 error in y values used
		A1	For 79 or 78	Allow 78 only if it comes from rectangle/midpoint method