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|---|---|---|---|---|---|
| 1 | (b) | 79 | M1 | for a method to find an estimate for the area of at least 1 trapezium under the curve,<br>eg $\frac{1}{2}\times 2\times(25+16)$ $(=41)$ oe or $\frac{1}{2}\times 2\times(16+9)$ $(=25)$ oe<br>or $\frac{1}{2}\times 2\times(9+4)$ $(=13)$ oe<br>**or** for a method to find an estimate for the area of at least 1 rectangle with heights at intersection of midpoint and curve,<br>eg $2\times 20.5$ $(=41)$ oe or $2\times 12.5$ $(=25)$ oe or $2\times 6$ $(=12)$ oe | May be seen as a rectangle added to a triangle<br>Allow consistent use of incorrect width for both M marks |
| | | | M1 | for a complete method,<br>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<br>or $\frac{1}{2}\times 2\times(25+4+2(16+9))$<br>**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 |