| Question | Scheme | Marks | AOs |
| :---: | :---: | :---: | :---: |
| 10(a) | $2 x^{2}-7 x+8=-3 x+14 \Rightarrow 2 x^{2}-4 x-6=0$ | M1 <br> A1 | 1.1 b <br> 1.1 b |
|  | (b) | A1 | 2.2 a |
|  | (3) |  |  |

## Notes

(a)

M1: Sets the curve equal to the line and rearranges to form a 3 TQ
A1: $\quad 2 x^{2}-4 x-6=0$ oe
A1: $\quad x=3$
(b)

M1: Attempts to integrate the curve or alternatively the line-curve. Award for increasing the power by 1 on one of the terms. Allow slips in collecting like terms in the alternative method.

A1: Correct integrated expression (ignore any reference to $+c$ )
M1: The overall strategy to find the shaded area proceeding to find a value for the area. In the method using the area of the trapezium, they must have attempted to find the $y$ coordinate of $P$

A1: 18 cao

