

## Q1. (2023)

| Q  | Answer                                    | Mark | Comments                                                                                                                                                                                                 |
|----|-------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21 | $(x-3)^2 - 24$<br>or $a = 3$ and $b = 24$ | B2   | B1 $(x-3)^2 \dots$ or $(x-3)(x-3) \dots$<br>or<br>$a = 3$ (implied by 3, -24)<br>or<br>$x^2 - 2ax + a^2 - b$<br>or<br>$-2a = -6$ or $2a = 6$<br>or<br>$a^2 - b = -15$<br>or<br>correct $b$ for their $a$ |
|    |                                           |      | <b>Additional Guidance</b>                                                                                                                                                                               |
|    |                                           |      | $(x+3)^2 - 24$ (24 is correct for $a = -3$ )                                                                                                                                                             |
|    |                                           |      | $(x-6)^2 - 51$ (51 is correct for $a = 6$ )                                                                                                                                                              |
|    |                                           |      | $(x+6)^2 - 51$ (51 is correct for $a = -6$ )                                                                                                                                                             |