## Question 12 – 4:

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|---|---|---|---|
| 12(a) | 13 | **1** | |
| 12(b) | $4x-3$ final answer | **2** | **M1** for $3-2(3-2x)$ |
| 12(c) | $-7$ 5 | **4** | **M1** for $x^2+2x-35\,[=0]$ or $x^2+2x=35$<br>**M2** for $(x+7)(x-5)$<br>or $x(x-5)+7(x-5)$ or $x(x+7)-5(x+7)$<br>or **M1** for $(x+a)(x+b)$ where $a$, $b$ are integers with $ab=-35$ or $a+b=2$ |
| 12(d) | $\frac{3-x}{2}$ oe final answer | **2** | **M1** for a correct first step:<br>$x=3-2y$ or $y-3=-2x$, $2x=3-y$ or $\frac{y}{2}=\frac{3}{2}-x$ |
| 12(e) | $32-54x+37x^2-8x^3$<br>final answer | **5** | **B4** for<br>$27-36x-18x+24x^2+12x^2-8x^3+x^2+5$ oe<br><br>OR<br>**B1** for $(3-2x)^3+x^2+5$<br>and<br>**B2** for expansion of the 3 brackets, allow one error<br>or **B1** for correct expansion of 2 of the brackets with at least 3 terms correct |