| | | | | |
|---|---|---|---|---|
| **13** | $3x(2x-5)=6x^2-15x$ **or** | | 3 | M1 for multiplying $3x$ by $(2x-5)$ with **both** terms correct or |
| | $(2x-5)^2=4x^2-10x-10x+25$ **or** | | | for multiplying $(2x-5)$ by $(2x-5)$ with 3 out of 4 terms correct or |
| | $(2x-5)^2=4x^2-20x+25$ | | | for multiplying $(2x-5)$ by $(2x-5)$ and getting $4x^2-20x\ldots$ **or** $\ldots -20x+25$ (not for $4x^2+25$) |
| | $(6x^2-15x)(2x-5)=12x^3-30x^2-30x^2+75x$ oe **or** | | | M1ft (dep) for multiplying the product of $3x$ and $(2x-5)$ by $(2x-5)$ with 3 out of 4 terms correct or |
| | $(6x^2-15x)(2x-5)=12x^3-60x^2+75x$ oe **or** | | | for multiplying the product of $3x$ and $(2x-5)$ by $(2x-5)$ and getting $12x^3-60x^2\ldots$ **or** $\ldots -60x^2+75x$ |
| | $3x(4x^2-10x-10x+25)=12x^3-30x^2-30x^2+75x$ oe **or** | | | for multiplying the product of $(2x-5)$ and $(2x-5)$ by $3x$ with 3 out of 4 terms correct or |
| | $3x(4x^2-20x+25)=12x^3-60x^2+75x$ | | | for multiplying the product of $(2x-5)$ and $(2x-5)$ by $3x$ with 2 out of 3 terms correct or |
| | | | | Expansion in one stage will lead to $12x^3-30x^2-30x^2+75x$ without firstly expanding two factors – award M2 for 3 out of 4 terms correct M1 for 2 out of 4 terms correct |
| | *Working required* | $12x^3-60x^2+75x$ | | A1 dep on M1 |
| | | | | **Total 3 marks** |