| | | | | | | |
|---|---|---|---|---|---|---|
| **5** | (a) | | $3c^4+12c^3$ | 2 | B2 | for $3c^4+12c^3$<br>(B1 for $3c^4$ or $12c^3$) |
| | (b)(i) | | | 2 | M1 | for $(x\pm9)(x\pm1)$<br>**or** for $(x+a)(x+b)$ with $ab=-9$ or $a+b=8$ |
| | | | $(x+9)(x-1)$ | | A1 | for correct factors |
| | (ii) | | $-9,\ 1$ | 1 | B1 | ft dep on factorising in the form $(x+p)(x+q)$ |
| | | | | | | **Total 5 marks** |

| | | | | | |
|---|---|---|---|---|---|
| **6** | $\frac{8}{3}(+)\frac{15}{4}$ **or** $(2)\frac{8}{12}(+)(3)\frac{9}{12}$ **or** $(2)\frac{8a}{12a}(+)(3)\frac{9a}{12a}$ | | 3 | M1 | for correct improper fractions **or** fractional part of numbers written correctly over a common denominator |
| | eg $\frac{8\times4+15\times3}{3\times4}$ **or** $\frac{32}{12}+\frac{45}{12}$ **or** $\frac{32a}{12a}+\frac{45a}{12a}$<br>**or** $2\frac{8}{12}+3\frac{9}{12}=5\frac{17}{12}$ oe | | | M1 | for correct fractions with a common denominator of 12 or a multiple of 12 |
| | $\frac{32}{12}+\frac{45}{12}=\frac{77}{12}=6\frac{5}{12}$ **or** $5\frac{17}{12}=6\frac{5}{12}$<br>**or** if shows $6\frac{5}{12}=\frac{77}{12}$ at the beginning then show that the addition comes to $\frac{77}{12}$ | Shown | | A1 | dep on M2 for a correct answer from fully correct working **or** shows that RHS = $\frac{77}{12}$ **and** fully correct working shows LHS = $\frac{77}{12}$ |
| | | | | | **Total 3 marks** |