

| $\mathbf{2}$ | (i) |  |  |
| :--- | :--- | :--- | :--- |

for correct expansion, with brackets or correct signs; must complete to the given answer with no errors in any interim working may follow $3 x^{2}=h^{2}+(2 x+1)^{2}$ oe for B0 B1
condone another letter instead of $h$ for one mark but not both unless recovered at some point eg B1 for $h^{2}=9 x^{2}-\left(4 x^{2}+4 x+1\right)$ and completion to correct answer
but
B0 for $h^{2}=9 x^{2}-4 x^{2}+4 x+1$






| 7 |  | $4 x^{4} y^{-3}$ or $\frac{4 x^{4}}{y^{3}}$ as final answer | 3 | B1 each 'term'; <br> or M1 for numerator $=64 x^{15} y^{3}$ and M1 for <br> denominator $=16 x^{11} y^{6}$ | B0 if obtained fortuitously <br> mark B scheme or M scheme to <br> advantage of candidate, but not a <br> mixture of both schemes |
| :--- | :--- | :--- | :---: | :---: | :--- | :--- |




| 10 | $\frac{x-3}{x+2}$ or $1-\frac{5}{x+2}$ as final answer www | 3 | B2 for correct answer seen and then spoilt <br> M1 for $(x+3)(x-3)$ <br> and M1 for $(x+2)(x+3)$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $[3]$ |  |  |  |


| 11 |  | $4 h+h a^{2}=9 a-5$ <br> $h\left(4+a^{2}\right)=9 a-5$ <br> $[h=] \frac{9 a-5}{4+a^{2}}$ oe as final answer | M1 | correctly collecting $h$ terms on one side, <br> remaining terms on other | M1 |
| :--- | :--- | :--- | :---: | :--- | :--- |
| for factorising, ft eg sign error |  |  |  |  |  |
| M1 | for division by their factor; <br> ft only for equiv difficulty | M0 if seen and spoilt, eg by incorrect <br> 'cancelling' |  |  |  |

